

P-W

ODESSA #1 NAVAJO SW NW 501  
Sec. 10-35N-30E APACHE COUNTY

sl

COUNTY Apache AREA 20 mi, S/Red Rock Trading Post LEASE NO. 14-20-0603-8898

WELL NAME Odessa #1 Navaajo *Natural Gasline*

LOCATION SW NW SEC 10 TWP 35N RANGE 30E FOOTAGE 1740' FNL 640' FWL

ELEV 9297 GR 9310 E. Log KB SPUD DATE 6-27-69 STATUS P&A TOTAL DEPTH 4978'  
COMP. DATE 7-18-69

CONTRACTOR Loffland Brothers Company

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
<u>9 5/8"</u>	<u>1608'</u>	<u>430 SKS</u>	<u>NA</u>	<u>x</u>
				DRILLED BY CABLE TOOL
				PRODUCTIVE RESERVOIR
				INITIAL PRODUCTION <u>P&amp;A</u>

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Chuska	Surface	x	x	Survey plat indicates location at 1750' FNL
Chinle	1531'			& 640 FWL and ground elevation 9295'
DeChelly	1956'			
Cutler	2720			
Hermosa	3845			
Black Shale Marker	4302			
Molas	4466			
Mississippian	4576			
Elbert	4760			
McCracken	4912-TT			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG <u>AM Strat</u>
<u>BHC/GR; IES</u>			SAMPLE DESCRP. <u>4 corners</u>
			SAMPLE NO. <u>1483*</u>
			CORE ANALYSIS
			DSTs
			*Tucson 2565

REMARKS \_\_\_\_\_

APP. TO PLUG x

PLUGGING REP. x

COMP. REPORT x

WATER WELL ACCEPTED BY \_\_\_\_\_

BOND CO. Federal Insurance Company BOND NO. 8040-61-85

BOND AMT. \$ 25,000 CANCELLED 10-15-71 DATE \_\_\_\_\_

FILING RECEIPT 9583 LOC. PLAT 6-16-69 X ORGANIZATION REPORT 8-13-68

API NO. 02-001-20102 DATE ISSUED 6-20-69 WELL BOOK x PLAT BOOK x

DEDICATION NW/4

PERMIT NUMBER 501

(over)



5

POST OFFICE BOX 1560  
FARMINGTON, NEW MEXICO 87401

### WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

New Well  Work-Over  Deepen  Plug Back  Same Reservoir  Different Reservoir  Oil  Gas  Dry

DESCRIPTION OF WELL AND LEASE

Operator <b>Odessa Natural Gasoline Co.</b>		Address <b>P. O. Box 3908, Odessa, Texas 79760</b>	
Federal, State or Indian Lease Number or name of lessor if fee lease <b>14-20-0603-8898, Aircodessa-SE Dineh-bi-Keyah</b>		Well Number <b>1</b>	Field & Reservoir <b>Wildcat</b>
Location <b>1740' from North line, 640' from West line</b>		County <b>Apache</b>	
Sec. TWP-Range or Block & Survey <b>Section 10, T 35 N, R 30 E, G&amp;SRM</b>			
Date spudded <b>6-27-69</b>	Date total depth reached <b>7-17-69</b>	Date completed, ready to produce <b>7-18-69 (Dry)</b>	Elevation (DF, RKB, RT or Gr.) <b>9297 GR</b> feet
Total depth <b>4978'</b>	P.B.T.D. <b>-</b>	Single, dual or triple completion? <b>-</b>	Elevation of casing hd. flange <b>-</b> feet
Producing interval (s) for this completion <b>Dry Hole</b>		Rotary tools used (interval) <b>0-4978'</b>	Cable tools used (interval) <b>-</b>
Was this well directionally drilled? <b>No</b>	Was directional survey made? <b>No</b>	Was copy of directional survey filed? <b>-</b>	Date filed <b>-</b>
Type of electrical or other logs run (check logs filed with the commission) <b>Es-Induction &amp; GR-Sonic logs</b>			Date filed <b>7-24-69</b>

CASING RECORD

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface	12 1/4"	9 5/8"	32.3#	1608.13'	430 SX	None

TUBING RECORD      LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
None in.	- ft.	- ft.	- in.	- ft.	- ft.	-	-

PERFORATION RECORD      ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval
None	-	-	-	-

INITIAL PRODUCTION

Date of first production <b>None</b>		Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump):					
Date of test	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity API (Corr)	
Tubing pressure	Casing pressure	Cal'd rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio	

Disposition of gas (state whether vented, used for fuel or sold):

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the \_\_\_\_\_ Agent of the \_\_\_\_\_  
**Odessa Natural Gasoline Co.** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Date **July 24, 1969**      Signature *M. R. Speer*

ADDRESS REPLY TO:  
POST OFFICE BOX 1560  
FARMINGTON NEW MEXICO 87401

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION

Well Completion or Recompletion Report and Well Log  
File One Copy

Permit No. **501**      Form No. 4



**DETAIL OF FORMATIONS PENETRATED**

Formation	Top	Bottom	Description*
Chuska	Surface <i>Eilat tops acc to drl, vept</i>	1531'	Unconsolidated, fn-cse gr, rndd, qtz sd grs w/intrbdd volc ash & tuff.
Chinle	1531'	1956	Shale - red-brn & gry-grn, silty calc.
DeChelly	1956	2720	Sandstone - wht-org, cs gr poorly consol, med sorted, s-rnd frosted qtz grs in f-gr, ang ss, matrix.
Cutler	2720	3845	Shale - siltstones & sandstone - red-brn to maroon, clayey shales w/org v-f gr, s-ang to s-rnd, qtz ss's grading to sltstns.
Hermosa	3845	4302	Limestones & shales - wht-lt gry to buff ls's, f-xlyn, dns, foss in part w/org chert. Sh's dk gry-blk, silty, calc.
Black Shale Marker	4302	4466	Shale - dk gry to blk, carb.
Molas	4466	4576	Shale - red-brn to purple, silty w/intrbd gry-red-brn vf-gr hd ss's.
Mississippian	4576	4760	Limestone & dolomite - wht-crm, vf-xlyn, cherty, oolitic in part, foss.
Elbert	4760	4912	Shale & dolomite - grn, waxy silty sh & lt gy to buff, fnly surcosic to vf-xlyn, dns dolo.
McCracken	4912	<sup>T.D.</sup> 4978	Sandstone - wht-clear, fn-med gr, s-ang to s-rnd, tite, qtzitic ss, glauc in part.

\* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

**INSTRUCTIONS:**

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.



APPLICATION TO ABANDON AND PLUG

FIELD Wildcat
OPERATOR Odessa Natural Gasoline Co. ADDRESS P. O. Box 3908, Odessa, Texas 79760
Federal, State, or Indian Lease Number Navajo Tribal 14-20-0603-8898
or Lessor's Name if Fee Lease Aircodessa-SE Dineh-bi-Keyah WELL NO. 1
SURVEY G & SRM SECTION 10, T 35 N, R 30 E COUNTY Apache
LOCATION 1740' from North line, 640' from West line

TYPE OF WELL Dry Hole (Oil, Gas or Dry Hole) TOTAL DEPTH 4978'

ALLOWABLE (If Assigned)

LAST PRODUCTION TEST OIL (Bbls.) WATER (Bbls.)
GAS (MCF) DATE OF TEST

PRODUCING HORIZON None PRODUCING FROM TO

1. COMPLETE CASING RECORD 50 joints 9 5/8", 32.3#, H-40 casing (1593.63') set at 1608.13'
with 330 sacks Howco lt wt cement w/2% CaCl and 100 sacks Class A cement w/2% CaCl.

2. FULL DETAILS OF PROPOSED PLAN OF WORK It is intended to plug and abandon this well in
the following manner: Set 100' cement plugs at 1600-1700' (41 sx), 3800-3900' (41 sx),
4525-4625' (33 sx), 4850-4950' (33 sx); and a 10' plug at surface with dry hole marker
indicating well name, location and lease number.

If well is to be abandoned, does proposed work conform with requirements of Rule 202? If not, outline
proposed procedure above.

DATE COMMENCING OPERATIONS July 17, 1969

NAME OF PERSON DOING WORK William R. Speer ADDRESS Box 1560, Farmington, N.M. 87401

CORRESPONDENCE SHOULD BE SENT TO William R. Speer
Name

Verbal approval given by Mr. John Bannister, Arizona OCC & by the USGS office, Farmington, N.M. by telephone on July 16, 1969.

Agent
Title
P. O. Box 1560
Address
Farmington, New Mexico 87401
Date July 17, 1969



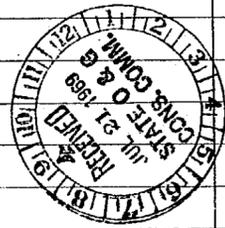
Date Approved 7/18/69
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: John Bannister / JV

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Abandon and Plug
File Two Copies
Form No. 9

Permit No. 501

DAILY DRILLING SUMMARY

WELL NAME AND NUMBER	CONTRACTOR	RIG NO.	DEPTH YESTER-DAY	DEPTH TODAY	TOTAL FOOTAGE	CSG. T.D.	EST. T.D.	NO. OF DAYS	HOLE SIZE	REMARKS
				JULY 13, 1969						
Odessa Ntl Gas Co Aircodessa-SE D-B-K #1 SW NW 10-35N-30E	Loffland	20	4367	4502	135 4910	4910	17	7 7/8		Drlg @ 4502' in vari-colored Molas shales w/Bit #9 (S-88 - 7 7/8"), Bit #8 out of hole @ 4440' made 723' in 81 1/2 hrs. 2° Dev @ 4400'. Mud wt 9.1, Vics 35, WL 10.4, FC 2/32, tr sd. T/Molas 4500'.
				JULY 14, 1969						
Aircodessa-SE D-B-K #1	Loffland	20	4502	4770	268 4910	4910	18	7 7/8		Drlg @ 4770' w/Bit #9 in wht to lt gry, micac, hornblende volcanic rock inter-mixed w/volcanic ash, quartzitic ss & lithographic dolo. NS. T/Miss 4575', T/Ourray 4740', T/Volcanics 4755'. Mud wt 9.2, Visc 37, WL 10.8, FC 2/32, tr sd.
				JULY 15, 1969						
Aircodessa-SE D-B-K #1	Loffland	20	4770	4872	102 4910	4910	19	7 7/8		Drlg @ 4872' in Elbert dolo w/Bit #10 (Sec. H-7SGJ), Bit #9 made 388' in 42 1/2 hrs. out at 4828'. 1 1/2° Dev @ 4792'. Mud wt 9.3#, Visc 42, WL 9.2, FC 2/32, tr sd. Sa T/Elbert 4775', Est T/McCracken ss 4940'. Plan to drill up the McCracken and log @ estimated TD 5000'.
				JULY 16, 1969						
Aircodessa-SE D-B-K #1	Loffland	20	4872	4957	85 4910	4910	20	7 7/8		Drlg @ 4957' w/Bit #11 (M-88 in @ 4902'). Sa T/McCracken ss 4916', sli show poro & oil staining, no gas (inert or otherwise) indicated on chromatograph. Mud wt 9.3, Visc 45, WL 8.2, FC 2/32, tr sd. 1 1/2° Dev @ 4792'.
				JULY 17, 1969						
Aircodessa-SE D-B-K #1	Loffland	20	4957	T.D. 4978	21		4978	21	7 7/8	T.D. 4978'. Drld to a total depth of 4978', ran Sj ES-Ind & GR-Sonic logs. Sj Log Tops: DeChelly 1956', Cutler 2720', Hermosa 3845', Black Shale Marker 4302', Molas 4466', Miss 4576', Elbert 4760', McCracken 4912'. Prep to P & A w/the following 100' cmt plugs: 1600-1700' (41 sx), 3800-3900' (41 sx), 4525-4625' (33 sx), 4850-4950' (33 sx).
				JULY 18, 1969						
Aircodessa-SE D-B-K #1	Loffland	20	T.D. 4978							T.D. 4978'. P & A well w/100' cmt plugs @ 4950-4850' (33 sx), 4625-4525' (33 sx), 3900-3800' (41 sx), 1700-1600' (41 sx) & set 10' plug @ surf w/DHM. RR @ 2:30 PM on 7-18-69. FINAL REPORT.



501

X-Chart  
 X-Chart

Form P-15

Odessa  
 Aircod  
 SW NW

Final

part

Alto

Alto

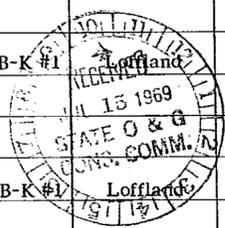
Alto

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EL PASO NATURAL GAS PRODUCTS COMPANY  
DAILY DRILLING SUMMARY

DATE \_\_\_\_\_ PAGE NO. 2  
LOCATION Farmington, New Mexico

WELL NAME AND NUMBER	CONTRACTOR	RIG NO.	DEPTH YESTER-DAY	DEPTH TODAY	TOTAL FOOTAGE	CSG. T.D.	EST. T.D.	NO. OF DAYS	HOLE SIZE	REMARKS
JULY 3, 1969										
Aircodessa-SE D-B-K #1 SW NW 10-35N-30E	Loffland	20	1750	2328	578	4910	4910	7	8 3/4	Drlg @ 2328' in unconsolidated cs, rnd, qtz sd in wht to orange fn grn sd matrix. Sa T/DeChelly 1965'. Drlg w/Bit #4 (DGTH), Bit #3 made 384' in 11 1/2 hrs. Mud wt 9#, Visc 37. 3/4° Dev @ 1787', 1° @ 1972'.
JULY 4, 1969										
Aircodessa-SE D-B-K #1	Loffland	20	2328	2692	364	4910	4910	8	8 3/4	Drlg @ 2692' in red siltstone of lower DeChelly w/Bit #5 (Smith STIAGJ). Had to ream 300'. Mud wt 9#, Visc 37, WL 12.4, FC 2/32, tr sd. Hole Dev: 1° @ 1972', 2 1/2° @ 2200', 2 1/4° @ 2404, 2° @ 2466', 3° @ 2590'.
JULY 5, 1969										
Aircodessa-SE D-B-K #1	Loffland	20	2692	2870	178	4910	4910	9	8 3/4	Drlg @ 2870' in Cutler redbeds w/Bit #6 (in @ 2720'). Sa T/Cutler @ 2719'. Mud wt 8.9#, Visc 37, WL 12.0, FC 2/32, tr sd. Hole Dev: 3° @ 2590', 2 1/2° @ 2775', 3° @ 2683'. Bit #4 made 406' in 17 1/2 hr, Bit #5 made 302' in 12 3/4 hr.
JULY 6, 1969										
Aircodessa-SE D-B-K #1	Loffland	20	2870	3068	198	4910	4910	10	8 3/4	Drlg @ 3068' in Cutler Evaporites, red siltstone & shales w/Bit #7 (S88). Bit #6 made 189' in 23 1/2 hr. Mud wt 9#, Visc 37, WL 10, FC 1/32, tr sd. Hole Dev: 2 1/4° @ 2868'. T/Cutler Evaporites 3035'.
JULY 7, 1969										
Aircodessa-SE D-B-K #1	Loffland	20	3068	3280	212	4910	4910	11	8 3/4	Drlg @ 3280' in Cutler evap redbeds w/Bit #7. Mud wt 9.1#, Visc 36.
JULY 8, 1969										
Aircodessa-SE D-B-K #1	Loffland	20	3280	3517	237	4910	4910	12	8 3/4	Drlg @ 3517' in Cutler red silty shales w/Bit #7. Mud wt 8.9, Visc 40, WL 11.4, FC 2/32, tr sd. 1° Dev @ 3269'. Est T/Hermosa 3840'.
JULY 9, 1969										
Aircodessa-SE D-B-K #1	Loffland	20	3517	3717	200	4910	4910	13	8 3/4	Depth 3717', red siltstn. Tripping for Bit No. 8 (S88). Bit No. 7 made 808' in 82 1/4 hrs. 1° Dev @ 3703'. Mud wt 8.9#, Visc 35, WL 11.2, FC 2/32, tr sd.
JULY 10, 1969										
Aircodessa-SE D-B-K #1	Loffland	20	3717	3896	179	4910	4910	14	8 3/4	Drlg @ 3896' in Penn. Hermosa wht ls. Sa/T Hermosa 3804'. Thin igneous sill @ 3760', estimated 5' in thickness composed of qtz biotite & hornblende. Drlg w/Bit #8. Mud wt 8.9, Visc 35, WL 12.4, FC 2/32, sd 1/4%.
JULY 11, 1969										
Aircodessa-SE D-B-K #1	Loffland	20	3896	4120	224	4910	4910	15	8 3/4	Drlg @ 4120' in ls w/Bit #8.
JULY 12, 1969										
Aircodessa-SE D-B-K #1	Loffland	20	4120	4367	247	4910	4910	16	8 3/4	Drlg @ 4367' in lower Hermosa ls's w/Bit #8 (S-88). T/Blk sh 4304', Bottom blk sh 4314' - 55 unit gas kick. No sill development.
						501				

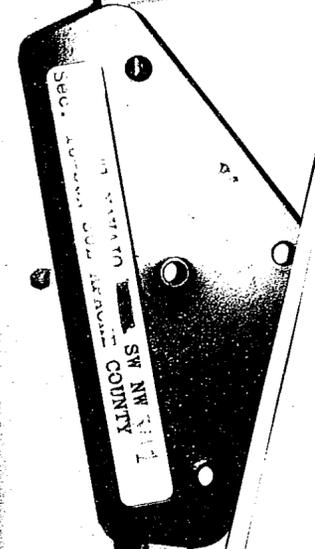


WELL NAME AND NUMBER
Odessa Ntl. Gas. Co.
Aircodessa-SE D-B-K

X-Check  
X-Check

DAILY DRILLING SUMMARY

WELL NAME AND NUMBER	CONTRACTOR	RIG NO.	DEPTH YESTER-DAY	DEPTH TODAY	TOTAL FOOTAGE	CSG. T.O.	EST. T.O.	NO. OF DAYS	HOLE SIZE	REMARKS
JUNE 24, 1969										
Odessa Ntl. Gas. Co. Aircodessa-SE D-B-K #1	Loffland	20				4910	4910		12 1/4	1740'/NL 640'/WL Sec. 10-35N-30E, Apache Co., Ariz. Est Elev 9260' Gr. Moving on location.
JUNE 25, 1969										
Aircodessa-SE D-B-K #1	Loffland	20				4910	4910		12 1/4	Moving on location & prep to rig up. Hampered by soft roads. Should spud today.
JUNE 26, 1969										
Aircodessa-SE D-B-K #1	Loffland	20				4910	4910		12 1/4	Drlg rat hole, have drld about 12 hrs. Had drld hole once, but having to drill again, hampered by rain; roads in very poor condition. Will drill mouse hole and then commence drilling.
JUNE 27, 1969										
Aircodessa-SE D-B-K #1	Loffland	20		25	25	4910	4910	1	12 1/4	Drlg @ 25' in wht Chuska ss (drlg hard), w/Bit #1 - 12 1/4" rerun. Spud @ 1:15 AM on 6-27-69.
JUNE 28, 1969										
Aircodessa-SE D-B-K #1	Loffland	20	25	477	452	4910	4910	2	12 1/4	Drlg @ 477' in wht Chuska ss w/Bit #1. Mud wt 8.9#, Visc 46, Sd Cont 1%. Hole deviation 1/2° @ 92', 1 1/2° @ 236', 1 3/4° @ 323', 1 3/4° @ 437'.
JUNE 29, 1969										
Aircodessa-SE D-B-K #1	Loffland	20	477	1176	699	4910	4910	3	12 1/4	Drlg @ 1176' w/Bit #2 (Smith DGH in @ 530') in Chuska ss. Mud wt 8.9#, Visc 34, Sd 1%, WL 12.4, FC 2/32. Hole dev 1 3/4° @ 555', 2° @ 703', 1 3/4° @ 825', 3/4° @ 990', 1° @ 1114'.
JUNE 30, 1969										
Aircodessa-SE D-B-K #1	Loffland	20	1176	1628	452	4910	4910	4	12 1/4	TD 1628' in Triassic Chinle fm. Prep to run 50 jts 9 5/8" surf csg. T/Chinle (1567' +/- 7743'). Mud wt 8.7#, Visc 48, WL 12.5, FC 2/32, Sd 1%. Hole dev 1 1/2° @ 1167', 2 1/2° @ 1354', 3° @ 1416', 2 1/2° @ 1479'.
JULY 1, 1969										
Aircodessa-SE D-B-K #1	Loffland	20	1628	1628	0	4910	4910	5	12 1/4	TD 1628'. Ran 50 jts 9 5/8", 32.3#, H-40 csg (1593.63'), set @ 1608.13' w/330 sx Howco lt wt cmt w/2% CaCl & 100 sx Class A cmt w/2% CaCl. Good circ. PD @ 12:40 PM on 6-30-69. Tested csg w/1000#, test ok. Cmt did not circ. WOC 24 hrs. B & R ran Temp Surv to determine top of cmt @ 12 midnite, T/cmt 100' from surf. RU to drill out from under surf @ noon. Will grout pea gravel around surf.
JULY 2, 1969										
Aircodessa-SE D-B-K #1	Loffland	20	1628	1750	122	4910	4910	6	12 1/4	Drlg @ 1750' w/Bit #3 (Smith DGTHJ) in Triassic red siltstone. Mud wt 8.7#, Visc 32, WL 12, FC 2/32, Sd 1/2%, 2 1/4° Dev @ 1603'. Had fishing job immediately out from under surf @ 1628'. Lost 20% of teeth from Bit #3. Ran 6" magnet twice. Rec bit teeth & one 3" piece of nail or wire. Ran milling shoe & cut 6' without encountering junk. Reran Bit #3 and drilling ahead.



X-Change  
 X-Change

The following wells have been received at the Cut.

Odessa, #1 Aircodessa  
Sec. 10-35N-30E  
Apache Co. Arizona

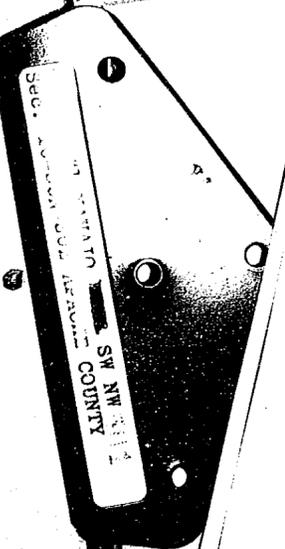
\* Kerr McGee, #11 Navajo  
Sec. 32-36N-30E  
Apache County, Arizona

Gulf #1 Navajo CS  
Sec. 34-37N-30E  
Apache County, Arizona

\* I may have already notified you of this one.



X-Charo  
Kerr McGee



The following wells have been received at the Cut.

Odessa, #1 Aircodessa  
Sec. 10-35N-30E  
Apache Co. Arizona

\* Kerr McGee, #11 Navajo  
Sec. 32-36N-30E  
Apache County, Arizona

Gulf #1 Navajo CS  
Sec. 34-37N-30E  
Apache County, Arizona



\* I may have already notified you of this one.

Form 9-336  
(Rev. 5-63)

ADDRESS REPLY TO:  
POST OFFICE BOX 1560  
FARMINGTON, NEW MEXICO 87401

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved  
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

1b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
**Odessa Natural Gasoline Co.**

3. ADDRESS OF OPERATOR  
**P. O. Box 3908, Odessa, Texas 79760**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface **1740' from North line, 640' from West line**  
At top prod. interval reported below  
At total depth **As above**  
**As above**

5. LEASE DESIGNATION AND SERIAL NO.  
**14-20-0603-8898**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
**Navajo Tribal**

7. UNIT AGREEMENT NAME  
-

8. FARM OR LEASE NAME  
**Aircodessa-SE-Dineh-bi-Keyah**

9. WELL NO.  
**--1--**

10. FIELD AND POOL, OR WILDCAT  
**Wildcat**

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
**Sec. 10, T35N, R30E  
G&SRM**

14. PERMIT NO. **Artiz. 501** DATE ISSUED **June 20, 1969**

12. COUNTY OR PARISH **Apache** 13. STATE **Arizona**

15. DATE SPUDDED **6-27-69** 16. DATE T.D. REACHED **7-17-69** 17. DATE COMPL. (Ready to prod.) **7-18-69 (Plugged)**

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* **9260' Gr** 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD **4978'** 21. PLUG, BACK T.D., MD & TVD

23. INTERVALS DRILLED BY **0-4978'** ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
**Dry Hole**

25. WAS DIRECTIONAL SURVEY MADE  
**No**

26. TYPE ELECTRIC AND OTHER LOGS RUN  
**Electrical-Induction log & Gamma Ray-Sonic log**

27. WAS WELL CORED  
**No**

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	32.3#	1608.13'	12 1/4"	330 ex Howco lt wt w/2% CaCl & 100 ex Class A w/2% CaCl.	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	30. TUBING RECORD
None					SIZE DEPTH SET (MD) PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
None	

33. PRODUCTION

DATE FIRST PRODUCTION \_\_\_\_\_ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) \_\_\_\_\_ WELL STATUS (Producing or shut-in) **Dry Hole (Plugged)**

DATE OF TEST \_\_\_\_\_ HOURS TESTED \_\_\_\_\_ CHOKER SIZE \_\_\_\_\_ PROD'N. FOR TEST PERIOD \_\_\_\_\_ OIL—BBL. \_\_\_\_\_ GAS—MCF. \_\_\_\_\_ WATER—BDL. \_\_\_\_\_ GAS—OIL \_\_\_\_\_

FLOW. TUBING PRESS. \_\_\_\_\_ CASING PRESSURE \_\_\_\_\_ CALCULATED 24-HOUR RATE \_\_\_\_\_ OIL—BBL. \_\_\_\_\_ GAS—MCF. \_\_\_\_\_ WATER—BDL. \_\_\_\_\_ OIL GRAVITY-API (CORR.) \_\_\_\_\_

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) \_\_\_\_\_ TEST WITNESSED BY \_\_\_\_\_

35. LIST OF ATTACHMENTS \_\_\_\_\_

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED **Original Signed WILLIAM R. SPEER** TITLE **Agent** DATE **July 21, 1969**



\*(See Instructions and Spaces for Additional Data on Reverse Side)

ADDRESS REPLY TO:  
POST OFFICE BOX 1560  
FARMINGTON NEW MEXICO 87401

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either as shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions. If not filed prior to the time this summary report is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

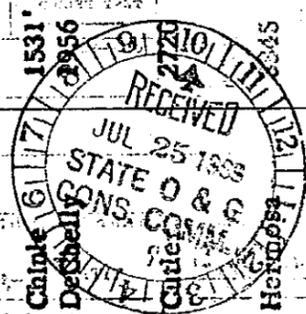
**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** "Stack Cement". Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

**No cores or DST's run.**

FORMATION		TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS	
NAME	MEAS. DEPTH	MEAS. DEPTH	TRUE VERT. DEPTH	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Chuska	Surface	1531'		Unconsolidated, fn-cse gr, rudd, qtz sd grs w/intrbd volc ash & tuff.	Surface	Surface
Chinle	1531'	1956		Shale-red-brn & gry-grn, silty, calc.	1531'	1531'
DeChelly	1956	2720		Sandstone-wht-org, cs gr poorly consol, med sorted, s-rnd frosted qtz grs in f-gr, ang ss, matrix.	1956	1956
Cudler	2720				2720	2720
Hermosa	3845			Shale, sltstms & ss-red-brn to maroon, clayey sh's w/org v-f gr, s-ang to s-rnd, qtz ss s grading to sltstms.	3845	3845
Elk Shale Marker	4302			Limestones & shales-wht-lt gry to buff ls's, f-xly, dns, foss in part w/org chert. Sh's dk gry-blk, silty, calc.	4302	4302
Molas	4466			Shale-dk gry to blk, carb.	4466	4466
Mississippian	4576			Shale-red-brn to purple, silty w/intrbd gry-red-brn vf-gr hd ss's.	4576	4576
Elbert	4760			Limestone & dolomite-wht-crm, vf-xly, cherty, oolitic in part, foss.	4760	4760
McCracken	4912			Shale & dolomite-grn, waxy silty sh & lt gy to buff, fully succosic to vf-xly, dns-dolo.	4912	4912
		4978		Sandstone-wht-clear, fn-med gr, s-ang to s-rnd, tte quartzic ss, glauc in part.	4978	4978



July, 21, 1969

Dear Mr. Lambert:

The following two wells have been received at  
the Cut.

Odessa, #1 Aircodessa Permit #501  
Sec. 10-35N-30E  
Apache Co. Arizona

Kerr McGee, #11 Navajo Permit # 506  
Sec. 32-36N-30E  
Apache Co. Arizona

*Jo Patchoff*

July 16, 1969

Memo to: File 501  
Odessa #1 Navajo 8898  
SW NW 10-35N-30E  
Apache County

From: John Bannister

Bill Speer telephoned this date. Captioned well being plugged and abandoned. TD of well 4980 in McCracken. No sill was encountered. The well was drilled on a structural high, being 290' high to the Humble 140.

Plugs will be set as follows:

Cement plug 4750 - 4850 through McCracken  
4500 - 4600 through Mississippian  
3775 - 3875 through Pennsylvanian  
1600 - 1700 through DeChelly

9-5/8" casing has been set to 1600 feet and will remain. Surface plug and marker to be set, location cleaned.

Verbal approval given this date by the Commission; prior approval by USGS has been obtained. Forms will follow.

Form 9-331  
(May 1963)  
ADDRESS REPLY TO:  
POST OFFICE BOX 1560  
FARMINGTON, NEW MEXICO 87401

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN THE  
(Other instructions  
verse side)

Form approved  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-0603-8898

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Alredson-SE Dish-hi-Keyah

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 10-T35N-R30E  
GARR

12. COUNTY OR PARISH

Apache

13. STATE

Arizona

SUNDRY NOTICES AND REPORTS ON WELLS  
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL  GAS WELL  OTHER  Wildcat

2. NAME OF OPERATOR  
Odessa Natural Gasoline Company

3. ADDRESS OF OPERATOR  
P. O. Box 8908, Odessa, Texas 79760

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

1740' from North line, 640' from West line  
Section 10, Township 35 North, Range 30 East

14. PERMIT NO. 15. ELEVATIONS (Show whether DP, HT, GR, etc.)

9260' GR.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input checked="" type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion or Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Spud Date 6-27-69.

6030-69; TD 1625'.

Ran 50 joints 9 5/8", 32.30, H-40 casing (1593.63') set at 1608.13' with 200 sacks Howco light weight cement with 2% CaCl and 100 sacks Glass A cement with 2% CaCl. Good circulation. Plug down at 12:40 PM on 6-30-69. Test casing with 1000#, test ok.

18. I hereby certify that the foregoing is true and correct

SIGNED Original Signed WILLIAM R. SPEER TITLE Agent

DATE July 1, 1969

(This space for Federal or State office use)

APPROVED BY TITLE

CONDITIONS OF APPROVAL, IF ANY:



ADDRESS REPLY TO:  
POST OFFICE BOX 1560  
FARMINGTON, NEW MEXICO 87401

\*See Instructions on Reverse Side

501

Form 9-331 C  
(May 1963)

SUBMIT IN THIS DATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1425.

ADDRESS REPLY TO:  
POST OFFICE BOX 1560  
FARMINGTON NEW MEXICO 87401

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER **Wildcat** SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
**Odessa Natural Gasoline Co.**

3. ADDRESS OF OPERATOR  
**P. O. Box 3908, Odessa, Texas 79760**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At surface  
**1740 ft. from North line, 640 ft. from West line**  
At proposed prod. zone  
**As above**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
**Red Rock Trading Post - 20 mi.**

16. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)  
**640'**

16. NO. OF ACRES IN LEASE  
**640 ac.**

17. NO. OF ACRES ASSIGNED TO THIS WELL  
**80 ac (W/2 NW/4)**

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
**None**

19. PROPOSED DEPTH  
**4900'**

20. ROTARY OR CABLE TOOLS  
**Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**9260' GR**

22. APPROX. DATE WORK WILL START\*  
**June 18, 1969**

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	32.3#	1600'	500 ex Pozmix A & 100 ex reg. 2% CaCl
8 3/4"	7"	20 & 23#	4900'	125 ex 50-50 Pozmix & reg w/2% CaCl

\*If required.

It is proposed to drill the well with rotary tools using mud as a circulating medium to the Pre-Cambrian granite estimated at a depth of 4900 ft. and to test and/or produce all zones possibly productive of hydrocarbons. Estimated formation tops are:

Chuska ss	Surface	Molas sh	4300'
Chinle fm	1550'	Mississippian ls	4350
DeChelly ss	1785	Devonian-Elbert fm	4515
Cutler fm	2345	McCracken ss	4670
Hermosa fm	3630	Apeth fm	4780
Hermosa black sh	4100		

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Original Signed WILLIAM R. SPEER TITLE Agent DATE June 13, 1969

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side



ADDRESS REPLY TO:  
 POST OFFICE BOX 1560  
 FARMINGTON, NEW MEXICO 87401

**APPLICATION FOR PERMIT TO DRILL OR RE-ENTER**

APPLICATION TO DRILL

RE-ENTER OLD WELL

**Odessa Natural Gasoline Co.**  
 NAME OF COMPANY OR OPERATOR

P. O. Box 3908                      Odessa                      Texas 79760  
 Address                                      City                                      State

**Loffland Brothers Co.**  
 Drilling Contractor  
 P. O. Box 688, Farmington, New Mexico 87401  
 Address

**DESCRIPTION OF WELL AND LEASE**

Federal, State or Indian Lease Number, or if fee lease, name of lessor <b>Navajo Tribal 14-20-0603-8898</b>	Well number #1 <b>Aircodessa</b> <b>S. E. Dineh-bi-Keyah</b>	Elevation (ground) <b>9260' GR</b>
Nearest distance from proposed location to property or lease line: <b>640</b> feet	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: <b>None</b> feet	
Number of acres in lease: <b>640</b>	Number of wells on lease, including this well, completed in or drilling to this reservoir: <b>None</b>	
If lease, purchased with one or more wells drilled, from whom purchased: <b>Not applicable</b>	Name	Address

Well location (give footage from section lines)      Section—township—range or block and survey      Dedication (Comply with Rule 105)  
**1740'/North & 640'/West**      **Sec. 10, T 35 N, R 30 E EG&SRM**      **80 ac (W/2 NW/4)**

Field and reservoir (if wildcat, so state)      County  
**Wildcat**      **Apache**

Distance, in miles, and direction from nearest town or post office  
**Red Rock Trading Post - 20 mi.**

Proposed depth: <b>4900'</b>	Rotary or cable tools <b>Rotary</b>	Approx. date work will start <b>June 18, 1969</b>
Bond Status <b>On file</b>	Organization Report	Filing Fee of \$25.00
Amount <b>\$5,000</b>	On file <input checked="" type="checkbox"/> Or attached	Attached <input checked="" type="checkbox"/>

Remarks: It is proposed to drill the well with rotary tools using mud as a circulating medium to the Pre-Cambrian granite estimated at a depth of 4900' and to test and/or produce all zones possibly productive of hydrocarbons. Estimated formation tops: Chuska ss - Surface, Chinle fm 1550', DeChelly ss 1785', Cutler fm 2545', Hermosa fm 3630', Hermosa black sh 4100', Molas sh 4300', Mississippian ls 4350', Dev. Elbert fm 4515', McCracken ss 4670', Aneth fm 4780'.

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Agent of the Odessa Natural Gasoline Co. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

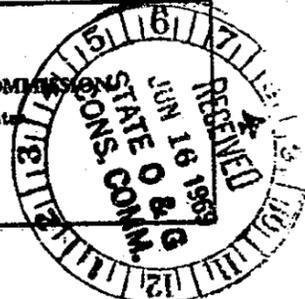
*William R. Speer*  
 Signature

**June 13, 1969**  
 Date

ADDRESS REPLY TO:  
 POST OFFICE BOX 1560  
 FARMINGTON, NEW MEXICO 87401

Permit Number: **501**  
 Approval Date: **6-20-69**  
 Approved By: *John Rannister*  
 Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

**STATE OF ARIZONA**  
**OIL & GAS CONSERVATION COMMISSION**  
 Application to Drill or Re-enter  
 File Two Copies  
 Form No. 3



1. Operator shall outline the dedicated acreage for both oil and gas wells on the plat. (Attached)
2. A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
3. All distances shown on the plat must be from the outer boundaries of the Section.
4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES  NO
5. If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES  NO  If answer is "yes," Type of Consolidation \_\_\_\_\_
6. If the answer to question four is "no," list all the owners and their respective interests below:

Owner	Land Description																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; height: 100px;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> <tr> <td style="height: 100px;"></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="height: 100px;"></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="height: 100px;"></td> <td></td> <td></td> <td></td> </tr> </table>																	<p style="text-align: center;"><b>CERTIFICATION</b></p> <p>I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p> <p>Name _____</p> <p>Position _____</p> <p>Company _____</p> <p>Date _____</p> <p>I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.</p> <p>Date Surveyed _____</p> <p>Registered Professional Engineer and/or Land Surveyor _____</p> <p>Certificate No. _____</p>

**PROPOSED CASING PROGRAM**

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
9 5/8"	32.3#	H-40	Surf	1600'	Surf	600
7"	20 & 23#	J-55	"	T.D.	4900'	125

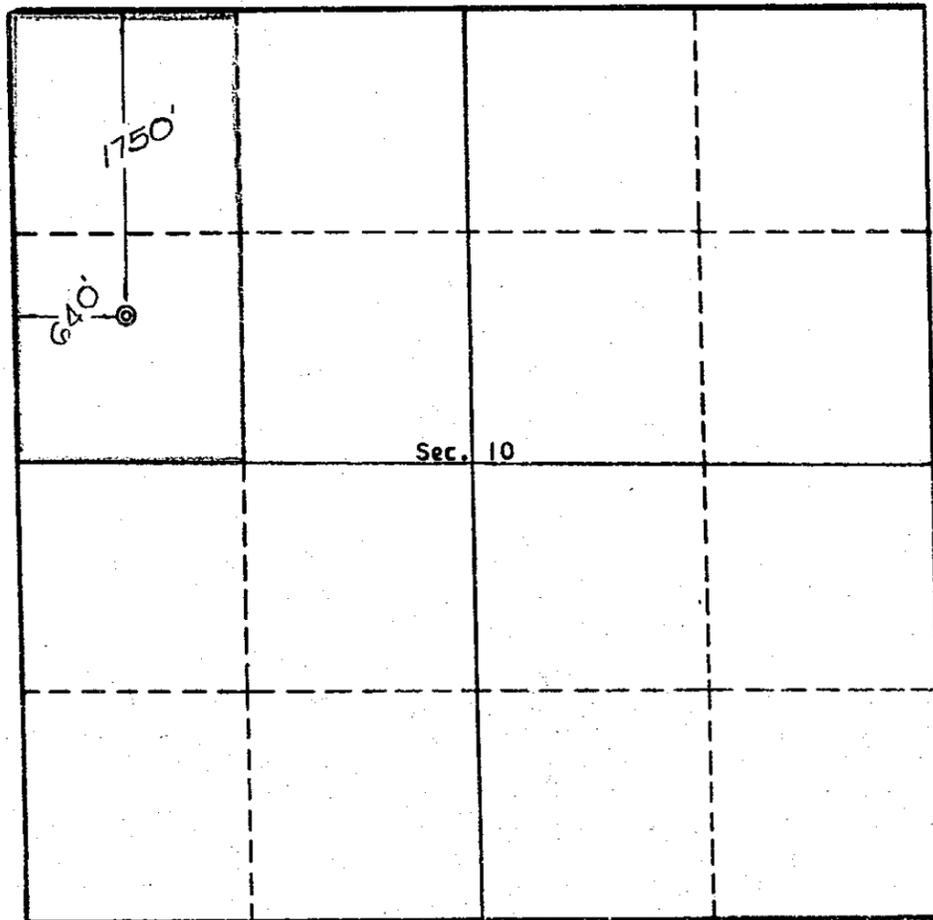
Company ODESSA NATURAL GASOLINE CO.

Well Name & No. No. 1 Aircodessa- SE D-B-K

Location 1750 feet from the North line and 640 feet from the West line.

Sec. 10, T. 35 N., R. 30 E., G. & S. R. M., County Apache, Arizona

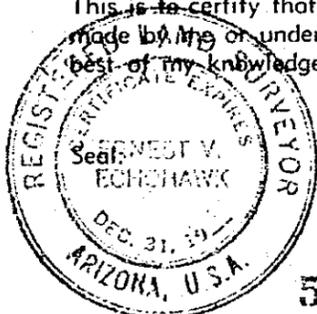
Ground Elevation 9295



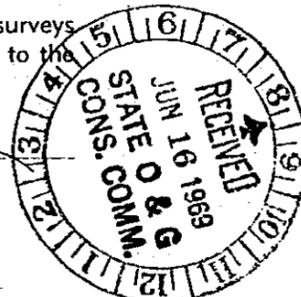
Scale, 1 inch = 1,000 feet

Surveyed June 8, 1969

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.



*Ernest V. Echohawk*  
Ernest V. Echohawk  
Registered Land Surveyor  
Arizona Registration No. 2311



501



# PERMIT TO DRILL

This constitutes the permission and authority from the  
OIL AND GAS CONSERVATION COMMISSION,  
STATE OF ARIZONA,

To: Odessa Natural Gasoline Company  
(OPERATOR)

to drill a well to be known as

Odessa #1 Navajo 8898  
(WELL NAME)

located 1740' FWL - 640' FWL

Section 10 Township 35N Range 30E, Apache County, Arizona.

The W/2 NW/4 of said  
Section, Township and Range is dedicated to this well.

Said well is to be drilled substantially as outlined in the attached Application and must be drilled  
in full compliance with all applicable laws, statutes, rules and regulations of the State of Arizona.

Issued this 20th day of June, 19 69.

OIL AND GAS CONSERVATION COMMISSION

By John Rannister  
EXECUTIVE SECRETARY

PERMIT N<sup>o</sup> 501

RECEIPT NO. 9583  
API NO. 02-001-20102

State of Arizona  
Oil & Gas Conservation Commission  
Permit to Drill

FORM NO. 27

SAMPLES ARE REQUIRED

October 15, 1971

Federal Insurance Company  
90 John Street  
New York, New York

Re: Odessa Natural Gasoline Company Bond #8040-61-85

Gentlemen:

Odessa Natural Gasoline Company has requested that the Oil and Gas Conservation Commission of the State of Arizona, release Bond #8040-61-85.

Odessa Natural has complied with all rules and regulations of the Oil and Gas Conservation Commission, therefore, the Commission does hereby authorize release of subject bond.

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA/rlb

cc- Mr. Darold P. Barnum

W. D. NOEL  
PRESIDENT

W. T. EDWARDS  
EXEC. VICE-PRESIDENT

J. W. COLE, JR.  
VICE-PRESIDENT

JOHN EN SHEPPERD  
VICE-PRESIDENT  
& GENERAL COUNSEL

JACK B. OWENS  
SECY-TREAS.

**ODESSA NATURAL GASOLINE COMPANY**

AMERICAN BANK OF COMMERCE BUILDING  
POST OFFICE BOX 3908  
ODESSA, TEXAS 79760

October 14, 1971

Oil & Gas Conservation Commission  
State of Arizona  
4515 North Seventh Avenue  
Phoenix, Arizona 85013

Re: Federal Insurance Company Bond #8040-61-85  
on behalf of Odessa Natural Gasoline Company  
to State of Arizona and the Oil and Gas  
Conservation Commission  
Effective: March 4, 1969

Gentlemen:

As we no longer own any oil and gas leases in Arizona, please  
authorize cancellation of the captioned blanket drilling bond.

Thanks for confirming that the bond may be cancelled.

Yours very truly,

*DP Barnum*  
Darold P. Barnum

DPBSu  
cc: AIA

501,489

RECEIVED  
OCT 15 1971  
O & G CONS. COMM.



PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS

Bond Serial No. 8040-61-85

That we: ODESSA NATURAL GASOLINE CO.

of the County of Ector in the State of Texas

as principal, and FEDERAL INSURANCE COMPANY

of New York, New York  
AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona.

as surety, are held and firmly bound unto the State of Arizona and the Oil and Gas Conservation Commission, hereinafter referred to as the "Commission", in the penal sum of Twenty-Five Thousand Dollars (\$25,000.00) lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The conditions of this obligation are that, whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State, to-wit:

Blanket Covering All Wells

(May be used as blanket bond or for single well)

NOW, THEREFORE, if the above bounden principal shall comply with all the provisions of the Laws of this State and the rules, regulations and orders of the Commission, especially with reference to the requirements of A.R.S. §27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil and Gas Conservation Commission all notices and records required by said Commission, then in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, this obligation is void; otherwise it shall remain in full force and effect.

Whenever the principal shall be, and declared by the Oil and Gas Conservation Commission in violation of the Laws of this State and the rules, regulations and orders of the Commission, the surety shall promptly:

1. Remedy the violation by its own efforts, or
2. Obtain a bid or bids for submission to the Commission to remedy the violation, and upon determination by the Commission and the Surety of the lowest responsible bidder, arrange for a contract between such bidder and the Commission, and make available as work progresses sufficient funds to pay the cost of remedying the violation; but not exceeding, including other costs and damages for which the surety may be liable hereunder, the amount set forth in the first paragraph hereof.

Liability under this bond may not be terminated without written permission of this Commission.

WITNESS our hands and seals, this 4th day of March, 1969

ODESSA NATURAL GASOLINE CO.

*J.W. Cole Jr.*

WITNESS our hands and seals this 4th day of March, 1969

FEDERAL INSURANCE COMPANY

Countersigned by:

*Cyrus A. Dinsley*  
*Joyce Brightwell*  
Joyce Brightwell - Attorney-in-Fact

Resident Agent

Surety, Resident Arizona Agent  
If issued in a state other than Arizona)

(If the principal is a corporation, the bond should be executed by its duly authorized officers, with the seal of the corporation affixed. When principal or surety executes this bond by agent, power of attorney or other evidence of authority must accompany the bond.)

Approved Date: 3-12-69

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION

By: *John Pennington*

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION

Bond  
File Two Copies

Form No. 2

**CANCELLED**

RECEIVED  
MAR 12 1969  
STATE O & G  
CONSERVATION COMMISSION

Acknowledgment of Annexed Instrument

STATE OF TEXAS }  
COUNTY OF DALLAS }

On this 4th day of March 19 69, before me personally came Joyce Brightwell

who, being by me duly sworn, did depose and say that he is an Attorney-in-Fact of the FEDERAL INSURANCE COMPANY, and knows the corporate seal thereof; that the seal affixed to said annexed instrument is such corporate seal, and was thereto affixed by authority of the Power of Attorney of said Company, of which a Certified Copy is hereto attached, and that he signed said instrument as an Attorney-in-Fact of said Company by like authority.

Acknowledged and Sworn to before me  
on the date above written.

My Commission Expires  
LAQUETA MOORE, Notary Public  
in and for Dallas County, Texas  
My Commission Expires June 1, 1969

*Laqueta Moore*  
(Notary Public)

POWER ATTORNEY

Know all men by these presents, That the FEDERAL INSURANCE COMPANY, 90 John Street, New York, New York, a New Jersey Corporation, has constituted and appointed, and does hereby constitute and appoint

Kenneth G. Thompson, John MacGregor, W. Robert Jones, Joyce Brightwell and Ruth Y. LeClercq of Dallas, Texas

each its true and lawful Attorney-in-Fact to execute under such designation in its name and to affix its corporate seal to and deliver to and on its behalf as surety thereon or otherwise, bonds of either of the following classes, to-wit:

- 1. Bonds on behalf of contractors in connection with bids, proposals or contracts to or with the United States of America, any State or political subdivision thereof or any person, firm or corporation.
2. Surety Bonds to the United States of America or any agency thereof, including those required or permitted under the laws or regulations relating to Customs or Internal Revenue; License and Permit bonds or other indemnity bonds under the laws, ordinances or regulations of any State, City, Town, Village, Board or other body or organization, public or private; Bonds to Transportation Companies, Lost Instrument bonds, Lease bonds, Workmen's Compensation bonds, Miscellaneous Surety bonds and bonds on behalf of Notaries Public, Sheriffs, Deputy Sheriffs and similar public officials.
3. Bonds and Undertakings required or permitted by law to be given or filed in any suit, matter or proceeding in any Court of the United States, or any State or other Court, or given to or filed with any Sheriff or Magistrate within any State, for the doing or not doing of anything specified in such Bond or Undertaking, in which the penalty of the bond or liability incurred under such undertaking does not exceed with respect to Fiduciary Bonds the sum of Unlimited Dollars (\$ Unlimited) and with respect to all other types of Court Bonds the sum of Unlimited Dollars (\$ Unlimited)

In Witness Whereof, the said FEDERAL INSURANCE COMPANY has, pursuant to its By-Laws, caused these presents to be signed by its Vice President and Assistant Secretary and its corporate seal to be hereto affixed this 27th day of September 19 67

FEDERAL INSURANCE COMPANY By

Frederick C. Gardner Vice-President



CANCELLED

Davis Quinn Assistant Secretary

STATE OF NEW YORK County of New York

DATE 10-15-71

On this 27th day of September 19 67, before me personally came Davis Quinn, to me known and by me known to be Assistant Secretary of the FEDERAL INSURANCE COMPANY, the corporation described in and which executed the foregoing Power of Attorney and the said Davis Quinn being by me duly sworn, did depose and say that he resides in the City of New York, in the State of New York; that he is Assistant Secretary of the FEDERAL INSURANCE COMPANY and knows the corporate seal thereof; that the seal affixed to the foregoing Power of Attorney is such corporate seal and was thereto affixed by authority of the By-Laws of said Company and that he signed said Power of Attorney as Assistant Secretary of said Company by like authority; that he is acquainted with Frederick C. Gardner and knows him to be Vice President of said Company, and that the signature of said Frederick C. Gardner subscribed to said Power of Attorney is in the genuine handwriting of said Frederick C. Gardner and was thereto subscribed by authority of said By-Laws and in deponent's presence.

Acknowledged and Sworn to before me on the date above written.



Marion J. McGrath Notary Public
MARION J. McGRATH
NOTARY PUBLIC, State of New York
No. 24-7837850
Qualified in Kings County
Certificate filed in New York County
Commission Expires March 30, 1968

W. D. NOEL  
PRESIDENT

W. T. EDWARDS  
EXEC. VICE-PRESIDENT

J. W. COLE, JR.  
VICE-PRESIDENT

JOHN N. SHEPPERD  
VICE-PRESIDENT  
& GENERAL COUNSEL

WELDON F. LEWIS  
SECY-TREAS.

**ODESSA NATURAL GASOLINE COMPANY**

AMERICAN BANK OF COMMERCE BUILDING

POST OFFICE BOX 3908

ODESSA, TEXAS 79760

July 2, 1969

ADDRESS REPLY TO:  
POST OFFICE BOX 1560  
FARMINGTON NEW MEXICO 87401

Arizona Oil & Gas Conservation Commission  
Attention: Mr. John Bannister  
Executive Secretary  
1624 West Adams Street  
Phoenix, Arizona 85007

Re: Odessa #1 Navajo 8898  
Aircodessa-SE D-B-K  
SW/4 NW/4 Sec. 10-35N-30E  
Apache County, Arizona

Dear Mr. Bannister,

This letter will acknowledge the receipt of your letter of July 1st regarding the above well and the acceptance of a re-dedication of the NW/4 to the well in compliance with Commission orders. Odessa Natural Gasoline was unaware of the inclusion of this section within the area encompassed by Commission Order No. 21 and was therefore not cognizant of being in violation of the order. Had we been aware, it would have been necessary for us to make application for an unorthodox location by reason of a substantial topographic problem. In the event of production from this well we would apply for such authorization. Thank you for calling this matter to our attention.

Very truly yours,

ODESSA NATURAL GASOLINE CO.

*Wm R. Speer*  
William R. Speer



cc: R. W. Allen  
C. J. Little  
G. L. Stone-Anadarko-Denver

*Jim Show NW/4 dedication*  
WRS:bf

X-Chloro  
~~X-Chloro~~

July 1, 1969

AIRMAIL

Odessa Natural Gasoline Company  
P. O. Box 1560  
Farmington, New Mexico 87401

Attention Mr. William R. Speer

Gentlemen:

Re: Odessa #1 Navajo 8898  
SW/4 NW/4  
Sec. 10-T35N-R30E  
Apache County, Arizona

The Commission's Permit #501 was issued for this well at the captioned location on June 20, 1969. It has come to our attention that the permitted location is in violation of Commission Order No. 21 dated May 10, 1967. Said Order designates among other lands, Section 10, Township 35 North, Range 30 East as being an area in which a well drilling to or through the lower Hermosa formation must be on 160 acre spacing units and that a well thereon must be located in either the northwest quarter-quarter or the southeast quarter-quarter.

Inasmuch as the Commission's error caused approval of this location, we will not require cessation of drilling operations; however, we will require that the NW/4 of Section 10, Township 35 North, Range 30 East be dedicated to this well. Pending the outcome of your drilling efforts, it may be necessary that the Commission call a hearing to authorize this well as an unorthodox location pursuant to Order No. 21. Further efforts by your company within the stipulated areas must be brought into compliance with Order 21, a copy of which is attached for your information.

501

Page 2  
Odessa Natural Gasoline Company  
July 1, 1969

Would you please acknowledge receipt of this letter  
and indicate the change of dedication to the NW/4 as  
required by the Order.

We apologize for the Commission's error.

Sincerely,

John Bannister  
Executive Secretary

JB:jf  
Attachment

cc: Mr. J. Roy Dorrough, Humble Oil & Refining Company  
P. O. Box 120  
Denver, Colorado 80201

X-CHRONO  
X-Lambert

June 20, 1969

Mr. William R. Speer  
Odessa Natural Gasoline Company  
P. O. Box 1560  
Farmington, New Mexico 87401

Re: Odessa #1 Navajo 8898  
T35N, R30E, G & SRM  
Sec. 10: 3W/4 NW/4  
Apache County  
Permit #501

Dear Mr. Speer:

Enclosed is the Application for Permit to Drill which has been approved, a copy of the plat, and our Permit To Drill No. 501.

Miscellaneous instruction sheets pertaining to the well samples and reports required by this office are also enclosed.

Yours truly,

James A. Lambert  
Administrative Assistant

jf

Enc.

501

X-Chloro  
X-Lambert

June 16, 1969

Mr. William R. Speer  
Odessa Natural Gasoline Company  
P. O. Box 3908  
Odessa, Texas 79760

Re: Odessa #1 Navajo 8898  
T35N, R30E, G & SRM  
Sec. 10: SW/4 NW/4  
Apache County  
Permit #501

Dear Mr. Speer:

We are in receipt of your Application to Drill this date. Everything seems to be in conformity with our rules and regulations. The Permit will be signed and issued on June 20 when our Executive Secretary, who is on an out-of-state trip, returns to the office.

Enclosed is the receipt for your \$25 money order.

Yours truly,

James A. Lambert  
Administrative Assistant

jf

Enc.

Photocopy to Speer in Farmington  
on 6/17/69 via airmail