

P-W

ST. MARY PARISH LAND CO. 2-16 ^{Maryjo}Tseh-da-kate
NW/SE Sec 16-T37N-R29E, Apache Co. 590

COUNTY Apache AREA Red Rock Trading Post LEASE NO. Navajo Tribal
15 miles NOO-C-14-20-2203

WELL NAME ST. MARY PARISH LAND CO. - OIL RESOURCES INC. 2-16 Tseh-da-kate *Navajo*

LOCATION NW/SE SEC 16 TWP 37N RANGE 29E FOOTAGE 1550' FSL - 2165' FEL

ELEV 6390 GR _____ KB _____ SPUD DATE 8-8-72 STATUS P & A TOTAL _____
 COMP. DATE 8-21-72 DEPTH 3774

CONTRACTOR Signal Well Service

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY	DRILLED BY CABLE TOOL	PRODUCTIVE RESERVOIR	INITIAL PRODUCTION
<u>10 3/4"</u>	<u>30'</u>	<u>25 sx</u>	_____	<u>x</u>	_____	_____	_____
<u>7 5/8"</u>	<u>1813'</u>	<u>275 sx</u>	_____	_____	_____	_____	<u>0</u>

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
<u>Chinle</u>	<u>G.L.</u>		<u>x</u>	<u>See file for more details.</u>
<u>De Chelly</u>	<u>1171</u>		<u>x</u>	
<u>Organ Rock</u>	<u>1813</u>		<u>x</u>	
<u>Supai</u>	<u>2245</u>		<u>x</u>	
<u>Hermosa</u>	<u>2960</u>		<u>x</u>	
<u>Paradox Blk. Sh.</u>	<u>3614</u>		<u>x</u>	
<u>Barker Creek</u>	<u>3632</u>		<u>x</u>	

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG	Am STRAT
<u>Dual Ind. -2, Neutron Porosity-2</u>			<u>SAMPLE DESCRP.</u>	<u>X</u>
<u>Log SNP-2</u>			<u>SAMPLE NO.</u>	<u>1700</u>
			<u>CORE ANALYSIS</u>	<u>No Cores</u>
			<u>DSTs</u>	<u>None</u>

REMARKS Drilling with air from 1813' to T.D. Had some water entry in Barker Creek APP. TO PLUG x
 PLUGGING REP. X
 COMP. REPORT X

WATER WELL ACCEPTED BY _____

BOND CO. Federal Insurance Company BOND NO. 8055-39-98
 BOND AMT. \$ 5,000 CANCELLED 7-19-75 DATE 6-28-72
 FILING RECEIPT 2925 LOC. PLAT X WELL BOOK X PLAT BOOK X
 API NO. 02-001-20167 DATE ISSUED 8-2-72 DEDICATION 80 acres W/2 of SE/4

PERMIT NUMBER 590

(over)

*Samples at
 four corners*

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: **St. Mary Parish Land Co.** Address: **1010 Denver Center Bldg., Denver 80203**

Federal, State or Indian Lease Number or name of lessor if fee lease: **Navajo Tribal NOO-C-14-20-22-3-Tseh-da-** Well Number: **2-16** Field & Reservoir: **Wildcat**

Location: **1550 ft. from south line, 2165 ft fr. E. Line Apache** County: **Apache**

Sec. TWP-Range or Block & Survey: **Sec. 16, T 37N, R 29E, GSRM**

Date spudded: **8-8-72** Date total depth reached: **8-20-72** Date completed, ready to produce: **8-21-72** Elevation (DF, RKB, RT or Gr.) feet: **6390 Gr.** Elevation of casing hd. flange feet: **---**

Total depth: **3774 ft.** P.B.T.D.: **--** Single, dual or triple completion?: **--** If this is a dual or triple completion, furnish separate report for each completion.

Producing interval (s) for this completion: **None** Rotary tools used (interval): **0-3774** Cable tools used (interval): **---**

Was this well directionally drilled?: **No** Was directional survey made?: **---** Was copy of directional survey filed?: **---** Date filed: **---**

Type of electrical or other logs run (check logs filed with the commission): **Dual Induction-Log, SW Neutron and F-log-SNP** Date filed: **---**

CASING RECORD

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Conductor	12 1/4"	10 3/4"	32.75	30 ft.	25	None
Water	9 5/8"	7 7/8"	29.7 & 26.4	1823 ft.	175	None

TUBING RECORD

LINER RECORD

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

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Am't. & kind of material used	Depth Interval
None			None	

INITIAL PRODUCTION

Date of first production: **None** 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'ed 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): **Dry Hole**

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the **Agent** of the **St. Mary Parish Land 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: **August 22, 1972** Signature: *[Handwritten Signature]*

RECEIVED

AUG 24 1972

Permit No. **590** O & G CONS. COMM.

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Well Completion or Recompletion Report and Well Log
Form No. 4 File One Copy

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 are 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 record 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 16: 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: "Sacks 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 drill stem tests run

FORMATION	TOP		BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS		
	SPUD	1171'			NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Triassic Chinle fm.	Spud	1171'	1171'	Red-browned & red-orange sandy silts & silty shales with occasional fine-grained sandstones	ONES	SEE DATA TO LEFT	
Permian DeChelley SS	1171'	1813'	1813'	White to pale orange, unconsolidated or loosely consolidated, friable, porous, well-sorted quartz sandstone of fine to very coarse, subrounded clear & frosted quartz grains. Probably water bearing.			
Permian Rock mbr.	1813'	2245'	2245'	Bright rust-red, hard, dense sandy siltstone			
Permian Supai fm.	2245'	2960'	2960'	Dark red-brown to bright red-orange, hard to soft, dense, sandy, anhydritic siltstone.			
Pennsylvanian Hermosa fm.	2960'	3613'	3613'	Light to medium gray to tan, dense, hard amorphous to very finely crystalline limestones with abundant chert in part.			
Paradox blackshale	3613'	3633'	3633'	Black grading to med. to dark gray, very hard, sandy shale.			
Barker Creek Zones of Paradox fm.	3633'	3774'	3774' TD	Light to med. gray, hard to moderately porous, amorphous to finely crystalline limestones composed in part of fossil debris (Chaetetes fusulinids, crinoid stems, etc.)			

RECEIVED
AUG 24 1972
8-24-72
O & CONS. COMM.

WELL SITE CHECK

By W.E.A
Date 8-31-72

Contractor Signal Well services Person(s) Contacted _____
Spud Date 8-8-72
Type Rig _____ Rotary Cable Present Operations PEA
Samples _____ Air
Pipe _____ Drilling with Mud
Water Zones _____ Size Hole _____
Lost Circ. Zones _____ Size Drill Pipe _____
Formation Tops _____ Type Bit _____
Cores, Logs, DST _____ No. Bit _____ Drilling Rate _____
Formation _____
Crews _____ Lithology _____
Location Needs Additional Leveling

SEE MAP
Attached

10-16-72
Location D.F.



WELL NAME St. Mary Parish
D-16 Navajo

Permit No. 570
Confidential Yes No

August 24, 1972

The following wells have been received by
the Sample Cut.

Eastern Petr. #1 Merde Indian
Sec. 30-20N-28E
Apache Co. # 592

Eastern Petr. #1 Surprise Creek
Aec. 29-19N-29E
Apache Co. Ariz. # 586

St. Mary Parish, #2-16 Tseh-da-kate # 590
Sec. 16-18N-29E
Apache Co. Ariz.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE
(See 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 _____

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

2. NAME OF OPERATOR
St. Mary Parish Land Co.

3. ADDRESS OF OPERATOR
1010 Denver Center Bldg., Denver, Colo. 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1550 ft. fr. S. line, 2165 ft. from E. line
At top prod. interval reported below As above
At total depth As above

5. LEASE DESIGNATION AND SERIAL NO.
N00-C-14-20-2203

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo Tribal

7. UNIT AGREEMENT NAME
None

8. FARM OR LEASE NAME
TSEH-DA-KATE

9. WELL NO.
2-16

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., N., OR BLOCK AND SURVEY OR AREA
S 16, T37N, R29E, GSRM

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

14. PERMIT NO. _____ DATE ISSUED _____

15. DATE SPUNDED 8-8-'72 16. DATE T.D. REACHED 8-20-'72 17. DATE COMPL. (Ready to prod.) 8-21-'72 18. ELEVATIONS (DP, RED, ST, OR, ETC.)* 6390 Gr., 6402' K.B. 19. ELEV. CASINGHEAD --

20. TOTAL DEPTH, MD & TVD 3774' 21. PLUG, BACK T.D., MD & TVD -- 22. IF MULTIPLE COMPL., HOW MANY* -- 23. INTERVALS DRILLED BY ROTARY TOOLS 0-3774' 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
Dual Induction-Laterolog, Sidewall Neutron Porosity, F-log-SNP 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
10 3/4"	32.75	30 ft.	12 1/4"	Circulated, 25 sax reg	None
7 5/8"	29.7 & 26.4	1823 ft.	9 5/8"	75 sax lite wt; 100 sax reg.	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)
None				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
None		

31. PERFORATION RECORD (Interval, size and number)
None

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* O & G CONS. COMM. PRODUCTION
DATE FIRST PRODUCTION _____ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) _____ WELL STATUS (Producing or shut-in) Dry Hole

DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

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 Wm R. Speer TITLE Agent DATE 8-22-72

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

GEOLOGICAL SURVEY

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

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 <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. NOO-C-14-20-2203																				
2. NAME OF OPERATOR St. Mary Parish Land Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal																				
3. ADDRESS OF OPERATOR 1010 Denver Center Bldg., Denver, Colorado 80203		7. UNIT AGREEMENT NAME None																				
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1550 ft. from S. line, 2165 ft. from E. line		8. FARM OR LEASE NAME Tsch-dá-katé																				
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6390 Gr., 6402 K.B.	9. WELL NO. 2-16																				
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		10. FIELD AND POOL, OR WILDCAT Wildcat																				
<table border="0"> <tr> <td colspan="2">NOTICE OF INTENTION TO:</td> <td colspan="2">SUBSEQUENT REPORT OF:</td> </tr> <tr> <td>TEST WATER SHUT-OFF <input type="checkbox"/></td> <td>PULL OR ALTER CASING <input type="checkbox"/></td> <td>WATER SHUT-OFF <input type="checkbox"/></td> <td>REPAIRING WELL <input type="checkbox"/></td> </tr> <tr> <td>FRACTURE TREAT <input type="checkbox"/></td> <td>MULTIPLE COMPLETE <input type="checkbox"/></td> <td>FRACTURE TREATMENT <input type="checkbox"/></td> <td>ALTERING CASING <input type="checkbox"/></td> </tr> <tr> <td>SHOOT OR ACIDIZE <input type="checkbox"/></td> <td>ABANDON* <input checked="" type="checkbox"/></td> <td>SHOOTING OR ACIDIZING <input type="checkbox"/></td> <td>ABANDONMENT* <input type="checkbox"/></td> </tr> <tr> <td>REPAIR WELL <input type="checkbox"/></td> <td>CHANGE PLANS <input type="checkbox"/></td> <td>(Other) <input type="checkbox"/></td> <td></td> </tr> </table>		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 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 checked="" 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"/>		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA S 16-T37N-R29E, GSRM
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 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 checked="" 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"/>																				
		12. COUNTY OR PARISH 18. STATE Apache Arizona																				

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.)*

August 20, 1972. Well total depth 3774 ft.

The well was plugged and abandoned in the following manner:

Set regular cement plugs with drill pipe and pump truck at T.D. of 3774 ft. to 3625 ft. (cover Barker Creek Zones) with 35 sacks.

1875 ft. to 1775 ft. (across bottom of 7 5/8" csg. set @ 1823') with 25 sacks. 50 ft. to surface with 15 sacks.

Set pipe dry hole marker, indicating well name & location in braden head at surface. No casing was pulled.

Verbal permission received 8/20/72 from Mr. Jerry Long

RECEIVED

AUG 24 1972

O & G CONS. COMM.

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

SIGNED

W. R. Speer

TITLE

Agent

DATE Aug. 22, 1972

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

St. Mary Parish Land Co. - Oil Resources, Inc.
#2-16 Tseh-da-kate (Hatchet Rock)

Log tops:

DeChelly	1171
Organ Rock	1813
Supai	2245
Hermosa	2960
1st Black Shale Marker	3614
Barker Creek "A"	3632
2nd Black Shale	3655
Barker Creek "B"	3660
3rd Black Shale	3698
Barker Creek "C"	3710
4th Black Shale	3716
Barker Creek "D"	3718
T.D.	3774

Barker Creek "B"	3680 - 3690	11% por, 100% ws
	3690 - 3695	8% por, 100% ws
Barker Creek "D"	3726 - 3732	6% por, 100% ws

#590

WP
 St. Mary Parish Land Co. - Oil Resources, Inc.
 #2-16 Tseh-dá-katé (Hatchet Rock)
 1550' FSL, 2165' FEL, Section 16, T 37N, R 29E
 Apache County, Arizona
 Ungraded ground elevation - 6390'
 Estimated T.D. - 3665'
 Contractor: Signal Oilfield Service, Inc. - Rig #8

DATE	TIME	DEPTH	
8- 8-72		30	Spud at 2 P.M., 8-8-72 w/Ludwick Drilling shallow rig. Drilled rat-hole and surface hole to 30'.
8- 9-72		30	Ran 1 jt, 10 3/4", 32.75#, H-40, LT&C csg to 30'. Set @ 30' w/25 sx reg cmt w/3% CaCl. Circulated to surface. Plug down @ 1:15 P.M. Waiting on rotary tools.
8-10-72		30	Signal rigging up. Probably break tower this evening.
8-11-72	8:00AM	30	Rigging up and preparing to drill.
8-14-72	8:00AM	1465	Drilling w/Bit #3. Sample top DeChelly @ 1153. Estimate csg depth for 7 5/8" will be 1810.
8-15-72	8:00AM	1810	Bit stuck @ 1740.
8-16-72	8:00AM	1823	WOC. Set 56 jts 7 5/8" csg @ 1813 w/175 sx Halliburton light and 100 sx reg cmt w/2% CaCl. Plug down 11 P.M. 8-15-72. Will drill out 7 P.M. this evening.
8-17-72	8:00AM	2085	Drlg in Organ Rock formation w/air. Dev. 1/2° @ 2008. Bit #4 - 6 3/4" J-55 made 262' in 7 3/4 hrs.
8-18-72	8:00AM	3135	Drlg. Dev 2 1/2° @ 2723. Sample top of Supai 2248. Sample top of Hermosa 3075. Estimated top of Black Shale marker and stiff foam 3600.
8-21-72	8:00AM	3774	Logging completed and prep to abandon.
8-22-72	8:00AM		Hole plugged w/reg cmt as follows: 3774 - 3625 35 sx 1875 - 1775 25 sx (across 7 5/8" csg) 50 - surface 15 sx Abandoned w/dry hole marker.

RECEIVED

AUG 24 1972

O & G CONS. COMM.

August 21, 1972

Memo: File
From: John Bannister

Re: St. Marys 2-16 Well - File 590

Bill Spear called me at home on August 20, 1972 at 7:20 p.m.
The above well to be plugged. Spudded in Chinle.

Tops:

DeChelly	1137'
Organ Rock	1793'
Hermosa	3124'
Paradox	Not Picked
Barker Creek	3682'
TD	3774'

Barker Creek - D Zone. 7-5/8" casing set to 1823'.

Plugs to be set as follows:

3774' to 3630'
1875' to 1775'
Surface plug of 15 sacks of cement.

Note: The well dusted until it hit Barker Creek, at which point it picked up some porosity. Approximately 3682' to 3693' the day after hitting Barker Creek, 425' of water was found in the hole. This zone is, of course, being plugged off.

Plugging program approved by Phil McGrath and verbally approved by me, above date.

WELL: ST. MARY PARISH LAND CO. #2-16 TSEH-DA-KATE

DRILLING TIME - MIN. PER. 5 FT.

	05	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	00
3500	7	7	5	6	6	6	9	9	11	10	9	9	5	6	10	17	12	10	10	8
3600	8	7	6	5	4	7	8	8	9	8	7	5	7	9	12	13	5	5	6	6
3700	4	5	10	5	7	5	6	5	10	9	10	13	10	18	T.D. 3774					

05	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	00
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BIT RECORD

BIT NO	SIZE	MFR	TYPE	DEPTH OUT	FOOTAGE	HRS RUN
1	12 1/4"	SMITH	T2 Ream	30'	30'	2 1/2
2	9 5/8"	SECURITY	S3J	1155'	1125'	36 1/2
3	9 5/8"	SECURITY	S3J	1336'	181'	12 1/2
4	9 5/8"	SECURITY	S4J	1823'	487'	11
5	6 3/4"	HUGHES	J55	3774	1951'	48 1/2

WELLY ST. MARY PARISH LAND CO. - 2-16 TSENVA-KAIC
 SE 1/4 16-37N07E - APACHE CO., ARIZ.

DRILLING TIME - MIN. PER. 5 FT.

	05	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	00		
0		Set	30'	10 3/4'	CSQ	-	NO TIME	22	17	17	21	16	-	INOP	-	29	35	28	26			
100	15	18	15	13	13	17	17	24	15	12	20	14	6	6	6	7	9	16	11	7		
200	16	14	19	11	8	8	8	7	7	7	9	11	9	12	11	17	9	8	12	11		
300	14	11	14	15	17	10	10	12	13	14	13	12	12	10	10	11	10	12	13	7		
400	7	6	6	7	8	8	6	6	7	7	6	6	6	8	8	7	6	4	4	4		
500	2	3	3	2	3	3	3	3	3	3	3	3	2	3	3	-	INOPER	-	4	3		
600	5	7	8	8	7	6	5	4	4	4	3	3	4	5	6	8	7	5	3	3		
700	3	3	4	4	4	4	5	5	4	4	5	5	4	5	5	5	5	5	4	3		
800	3	7	6	4	3	3	4	6	6	4	4	5	6	5	5	4	6	9	6	4		
900	7	6	5	3	2	2	2	2	2	3	3	3	4	4	4	4	6	7	5	8		
1000	6	6	6	6	5	6	6	6	6	5	10	10	6	7	10	9	9	8	5	6		
1100	6	6	6	5	6	7	7	7	7	8	10	TRIP R-11	9	11	17	19	17	19	19	25		
1200	CHG. CHRT.	17	12	9	13	27	29	?	13	16	15	14	18	29	18	22	17	30	30	21		
1300	13	14	11	18	17	18	27	TRIP 19	19	18	12	18	14	18	22	20	17	16	13	15		
1400	12	11	5	3	3	5	6	5	5	4	5	4	4	4	5	5	5	8	7	7		
1500	5	6	←	clock down	→	5	4	5	5	7	5	6	8	10	8	9	8	6	7	6		
1600	5	6	6	6	6	7	6	6	7	6	5	5	6	6	5	5	6	6	4	7		
1700	9	9	7	6	6	7	6	6	7	8	11	14	13	12	18	17	18	21	25	30		
1800	28	31	DEPTH CORR. 1800=1813					AIR DRLG.	11	10	13	16	11	11	7	6	8	7	9	8	6	8
1900	5	6	7	8	6	9	7	5	3	10	9	6	7	7	6	7	6	8	9	7		
2000	5	5	6	6	6	6	6	7	8	6	4	4	4	4	X	4	5	6	7	5		
2100	6	5	5	5	5	9	5	4	3	5	5	5	4	4	3	3	3	4	3	3		
2200	3	4	3	4	4	6	4	4	4	6	6	5	6	8	9	8	8	6	3	5		
2300	6	6	5	5	5	5	5	5	5	6	5	5	4	4	4	X	5	5	5	7		
2400	8	5	5	3	3	3	3	4	4	4	4	4	4	5	5	6	7	5	5	6	8	
2500	6	5	4	4	X	X	X	5	5	6	5	5	3	6	6	10	7	6	6	6		
2600	4	4	7	6	6	6	7	5	6	5	6	7	CHG. CHRT	CHG. CHRT	4	4	4	5	5	4		
2700	3	4	5	8	7	6	7	5	6	5	5	5	4	4	5	4	5	6	6	6		
2800	5	6	7	8	6	6	5	6	4	4	6	6	5	5	7	X	6	5	5	6		
2900	5	7	7	7	7	6	6	7	5	6	7	7	5	6	10	10	2	9	5	5		
3000	4	4	6	7	6	5	5	5	5	4	5	7	5	6	5	4	4	5	4	5		
3100	5	6	5	5	7	6	8	5	7	6	7	11	10	11	11	6	10	6	7	7		
3200	15	10	6	8	10	7	9	19	9	12	5	5	5	5	7	8	9	8	6	6		
3300	5	5	5	5	5	5	6	6	7	6	5	4	5	7	5	4	5	6	5	6		
3400	6	5	8	4	5	4	7	10	5	5	3	4	4	4	6	10	5	6	8	10		
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Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

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.)

5. LEASE DESIGNATION AND SERIAL NO. N00-C-14-20-2203	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal	
7. UNIT AGREEMENT NAME None	
8. FARM OR LEASE NAME Tseh-dá-katé	
9. WELL NO. 2-16	
10. FIELD AND POOL, OR WILDCAT Wildcat	
11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA S 16-T37N-R29E, GSRM	
12. COUNTY OR PARISH Apache	13. STATE Arizona
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, ST, OR, etc.) 6390 Gr., 6402 K.B.

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 COMPLETS <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 on 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.)*

August 15, 1972, Ran 55 joints of 7 5/8" casing consisting of 9 jts. of 26.4#, N-80, 8-rnd, Lt&C; 21 jts. of 29.7#, N-80, 8-rnd, LT&C; 25 jts. of 26.4#, J-55, 8-rnd, ST&C, totaling 1813.18 ft. Set @ 1823 ft. with 75 sacks of Halliburton Light Cement (65% reg., 35% POZMIX) with 1/4 lb/cu. ft. gilsonite and 100 sacks of regular cement with 2% calcium chloride. Plug down 11 p.m., 8-15-72. Estimated fill-up to 800 ft. Tested casing with 1000#, 18 hrs. after running, tested O.K.

RECEIVED

AUG 24 1972

O & G CONS. COMM.

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

SIGNED

Wm. D. Speer

TITLE **Agent**

DATE **Aug. 22, 1972**

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Form 9-331
(May 1963)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
NOO-C-14-20-2203

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal

7. UNIT AGREEMENT NAME

None

8. FARM OR LEASE NAME

Tseh-dā-katē

9. WELL NO.

2-16

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

S 16-T37N-R29E, GSRM

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
St. Mary Parish Land Company

3. ADDRESS OF OPERATOR
1010 Denver Center Bldg., Denver, Colo. 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
1550 ft. from S. line, 2165 ft. from E. line

14. PERMIT NO.

15. ELEVATIONS (Show whether DP, RT, GR, etc.)

6390' Gr., 6402 K.B.

12. COUNTY OR PARISH

Apache

13. STATE

Arizona

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

FULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on 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.)

August 9th, 1972 - Ran 1 joint of 10 3/4", 32.75#, H-40, LT&C casing to 30 ft. as conductor pipe. Set with 25 sacks of regular cement, 3% calcium chloride. Plug down 12 p.m. Circulated cement to surface with pump truck.

RECEIVED

AUG 24 1972

O & G CONS. COMM.

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

SIGNED

Max Speer

TITLE Agent

DATE 8-22-72

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Regional Oil & Gas Supervisor

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Indian Affairs, holder of lease

DISTRICT LAND OFFICE: Navajo Area Office, Window Rock, Arizona
CONTRACT NO. NOO-C-14-20-2291

and hereby designates

NAME: St. Mary Parish Land Company
ADDRESS: 1010 Denver Center Building, Denver, Colorado 80203

as its operator and local agent, with full authority to act in its behalf in complying with the terms of the lease and regulations applicable there-to and on whom the supervisor or its representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to

T. 37 N., R. 30 E., G.S.R.M.

Section 30: SW/4

Apache County, Arizona

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

ATTEST:

m B. ...
Assistant Secretary

Date: 7-11-72

GULF OIL CORPORATION

By *J. A. ...*
Attorney-in-Fact

P. O. Box 1150, Midland, Texas 79701

H 590

RTY
150

APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

APPLICATION TO DRILL

RE-ENTER OLD WELL

St. Mary Parish Land Co. - Oil Resources, Inc.
NAME OF COMPANY OR OPERATOR

1010 Denver Center Bldg., Denver, Colorado 80203
Address City State

Not selected
Drilling Contractor

Address

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or if fee lease, name of lessor	Well number	Elevation (ground)
Navajo Tribal NOO-C-14-20-2203	2-16 Tseh-da-kate'	6390

Nearest distance from proposed location to property or lease line:	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease:
3115 feet	None feet

Number of acres in lease:	Number of wells on lease, including this well, completed in or drilling to this reservoir:
2560 acres [±]	None

If lease, purchased with one or more wells drilled, from whom purchased: Name Address
Not applicable

Well location (give footage from section lines)	Section—township—range or block and survey	Dedication (Comply with Rule 105)
1550' FSL, 2165' FEL	16-T37N-R29E, G.S.R.M.	80 ac. (W/2 SE/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 - 15 miles

Proposed depth:	Rotary or cable tools	Approx. date work will start
3665	Rotary	July 20, 1972

Bond Status Applied for	Organization Report	Filing Fee of \$25.00
Amount \$5,000	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 water as a circulating medium to an intermediate casing depth of 1800' where 7 5/8" casing will be set. Well will then be air drilled to 3565' where stiff foam will be utilized to drill through expected pay zone (Barker Creek zone of Paradox formation) to TD of 3665'. All zones possibly productive of hydrocarbons will be tested and/or produced. Estimated formation tops: DeChelly ss - 1135'; Organ Rock - 1743'; Hermosa fm. - 3048'; Paradox fm. - 3420'.

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the agent of the St. Mary Parish Land Company (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.

Signature: *William R. Speer*
Wm. R. Speer
Date: July 17, 1972

Permit Number: 590
Approval Date: 8-2-72
Approved By: *[Signature]*
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 Section
	<p style="text-align: center;">CERTIFICATION</p> <p>I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p> <p style="text-align: center;">Wm. R. Speer</p> <p>Name</p> <p style="text-align: center;">Agent</p> <p>Position</p> <p style="text-align: center;">St. Mary Parish Land Co.</p> <p>Company</p> <p style="text-align: center;">July 17, 1972</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 June 18, 1972</p> <p>Registered Professional Engineer and/or Land Surveyor</p> <p style="text-align: center;">Fred B. Kerr, Jr.</p> <p>Certificate No. 3950</p>

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement To surface
10 3/4"	32.75	H-40	0	30'	30'	To surface
7 5/8"	26.4	J-55	0	1800'	1800'	165 sx.
4 1/2"	(if required)		0	3665'		50 sx.

COMPANY St. Mary's Parish Land Co.-Oil Resources Inc.

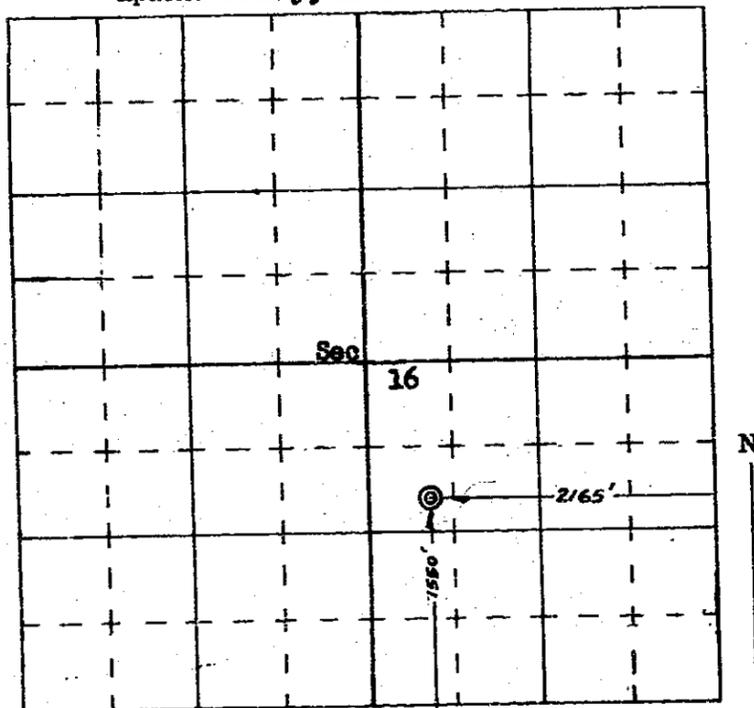
LEASE Tseh-da-kate WELL NO. 2-16

SEC. 16 T. 37N R. 29E

LOCATION 1550'FSL 2165'FEL

ELEVATION 6390 ungraded ground

Apache County, Arizona



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SEAL:

Fred B. Kerr Jr.
Registered Land Surveyor
Fred B. Kerr Jr. #3950

SURVEYED

June 18, 1972

FARRINGTON, N. M.

590

NW/SE



PERMIT TO DRILL

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

To: ST. MARY PARISH LAND COMPANY-OIL RESOURCES, INC.
(OPERATOR)

to drill a well to be known as

ST. MARY PARISH LAND COMPANY 2-16 TSEH-DA'-KATE'
(WELL NAME) *Davajo*

located 1550' FSL - 2165' FEL

Section 16 Township 37N Range 29E, Apache County, Arizona.

The 80 acres (W/2 SE/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 2nd day of August, 1972.

OIL AND GAS CONSERVATION COMMISSION

PRIOR TO BEING ALLOWED TO PRODUCE THIS WELL
YOU MUST BE IN FULL COMPLIANCE WITH RULE
105, SECTION A THRU G (SPACING), WITH RESPECT
TO THE PRODUCT TO BE PRODUCED.

By [Signature]
EXECUTIVE SECRETARY

PERMIT N^o 590

RECEIPT NO. 2925
API NO. 02-001-20167

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

SAMPLES ARE REQUIRED

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS

Bond Serial No. 8055-39-98

That we: St. Mary Parish Land Company
of the County of Denver in the State of Colorado
as principal, and FEDERAL INSURANCE COMPANY
of 90 JOHN STREET, NEW YORK, N. Y. 10038
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 Five Thousand and no/100 (\$5,000.00) dollars 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:

SE/4 of Sec. 16, Township 37 North, Range 29 East, GSRM, Apache County, Arizona

(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 5th day of July, 1972

ATTEST: St. Mary Parish Land Company
By: [Signature] Principal
Secretary [Signature] President

WITNESS our hands and seals this 5th day of JULY, 1972

FEDERAL INSURANCE COMPANY
CANCELLED BY Mary F. Nieters, Attny.-in-Fact
Eugene A. DiCalleo
DATE 7-19-73
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 8-2-77
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: [Signature]

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Bond
File Two Copies
Form No. 1

Permit No. 590

Certified Copy of
POWER OF 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

M. J. Fauchald, Edward F. Reid, Mary F. Nieters and Gerideane Tracey
of Denver, Colorado - - - - -

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 for and on its behalf as surety thereon or otherwise, bonds or obligations given or executed in the course of its business, and any instruments amending or altering the same, and consents to the modification or alteration of any instruments referred to in said bonds or obligations.

In Witness Whereof, the said FEDERAL INSURANCE COMPANY has, pursuant to its By-Laws, caused these presents to be signed by its Assistant Vice President and Assistant Secretary and its corporate seal to be hereto affixed this 14th day of June 1972

FEDERAL INSURANCE COMPANY
By



George McClellan
George McClellan
Assistant Vice-President

John MacGregor
John MacGregor
Assistant Secretary

STATE OF NEW YORK }
County of New York } ss.:

On this 14th day of June 1972 before me personally came John MacGregor, 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 John MacGregor being by me duly sworn, did depose and say that he resides in the City of Short Hills, in the State of New Jersey; 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 George McClellan and knows him to be Assistant Vice-President of said Company, and that the signature of said George McClellan subscribed to said Power of Attorney is in the genuine handwriting of said George McClellan 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

Mary K. Bendick

Notary Public

MARY K. BENDICK
Notary Public, State of New York
No. 24-0237960
Qualified in Kings County
Certificate filed in New York County
Commission Expires March 30, 1973



CANCELLED

DATE 7-19-73

CITY AND COUNTY OF NEW YORK: ss

I, the undersigned, Assistant Secretary of the FEDERAL INSURANCE COMPANY, do hereby certify that the following is a true excerpt from the By-Laws of the said Company as adopted by its Board of Directors on March 11, 1953 and amended May 27, 1971 and that this By-Law is in full force and effect.

"ARTICLE XVIII.

Section 2. All bonds, undertakings, contracts and other instruments other than as above for and on behalf of the Company which it is authorized by law or its charter to execute, may and shall be executed in the name and on behalf of the Company either by the Chairman or the Vice Chairman or the President or a Vice-President, jointly with the Secretary or an Assistant Secretary, under their respective designations, except that any one or more officers or attorneys-in-fact designated in any resolution of the Board of Directors or the Executive Committee, or in any power of attorney executed as provided for in Section 3 below, may execute any such bond, undertaking or other obligation as provided in such resolution or power of attorney.

Section 3. All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the Vice-Chairman or the President or a Vice-President or an Assistant Vice-President, jointly with the Secretary or an Assistant Secretary, under their respective designations."

And I further certify that I have compared the foregoing copy of the POWER OF ATTORNEY with the original thereof and the same is a correct and true copy of the whole of said original Power of Attorney and that said Power of Attorney has not been revoked.

And I further certify that said FEDERAL INSURANCE COMPANY is duly licensed to transact fidelity and surety business in each of the States of the United States of America, District of Columbia, Puerto Rico, and each of the Provinces of Canada with the exception of Prince Edward Island; and is also duly licensed to become sole surety on bonds, undertakings, etc., permitted or required by law.

Given under my hand and seal of said Company at New York, N. Y., this..... 5th day of

JULY 19 72

C. Gutter
Assistant Secretary



CHUBB & SON INC.

518-17th Street, Denver, Colorado 80202 · Phone: (303) 266-0805

July 10, 1973

CHUBB/PACIFIC
INDEMNITY GROUP
1660 LINCOLN ST.
DENVER, COLO. 80203

**Oil and Gas Conservation Commission
State of Arizona
1624 W. Adams
Phoenix, Arizona 85000**

Request for Termination of Bond
Principal: **St. Mary Parish Land Company**
Bond Number: **8055-39-98**
Type of Bond: **Oil and Gas Drilling Bond ***
Effective Date: **July 5, 1972**

Gentlemen:

Information has reached us that this bond is no longer required and should be terminated as of July 5, 1973.

The bond provides it may be cancelled by the Surety's giving _____ days written notice to the Obligee. Please consider this letter as such notice.

Will you please favor us with appropriate reply on the enclosed extra copy of this request, accepting our thanks for your early cooperation.

*SE/4, S.16, T.37N, R. 29E., GSRM,
Apache Co., Arizona

Very truly yours,

FEDERAL INSURANCE COMPANY

BY CHUBB & SON INC. MANAGER

Mary F. Neters
Mary F. Neters (Miss)
Surety Dept.

RECEIVED

JUL 15 1973

O & G CONS. COMM.

(Check Box Applicable)

The information given to you is correct and you are authorized to terminate future liability as Surety from and after July 19, 1973

This bond may not be terminated and must continue in full force and effect

Obligee: OIL & GAS CONSERVATION COMMISSION, 4515 N. 7th Avenue, Phx., Az. 85013

BY W. S. [Signature]

Title Director, Enforcement Section

Date 7-19-73



CHUBB CORPORATION COMPANIES: Chubb & Son Inc. • Federal Insurance Company • Pacific Indemnity Company
Colonial Life Insurance Company of America • Vigilant Insurance Company • Great Northern Insurance Company • Northwestern
Pacific Indemnity Company • Texas Pacific Indemnity Company • Federal Business Products, Inc. • Macro Services Corporation.

ST. MARY PARISH LAND COMPANY
1776 LINCOLN STREET, DENVER, COLORADO 80203
TELEPHONE: 303/244-5569

July 17, 1973

Oil and Gas Conservation Commission
State of Arizona
4515 North 7th Avenue
Phoenix, Arizona 85013

Attention: W. E. Allen, Director
Enforcement Section

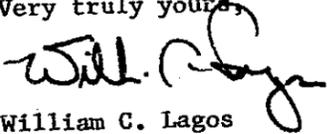
Re: 1-30Ghee-'ateen
NESW Sec. 30, T37N-R30E
Apache County
Your File: 591

2-16 Tseh-da'-kate'
NWSE Sec. 16, T37N-R29E
Apache County
Your File: 590

Gentlemen:

In furtherance of your letter of July 13, 1973, this is to advise you that we desire to cancel the bonds on the captioned wells.

Very truly yours,


William C. Lagos

WCL:jr

RECEIVED

JUL 19 1973

O & G CONS. COMM.



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5161

July 13, 1973

Mr. William R. Speer
St. Mary Parish Land Company
1010 Denver Center Building
Denver, Colorado 80203

Re: 1-30 Ghee-'ateen
NE/SW Sec 30-T37N-R30E
Apache County
File No. 591

2-16 Tseh-da'-kate'
NW/SE Sec 16-T37N-R29E
Apache County
File No. 590

Dear Mr. Speer:

We have received a request from Chubb & Son Inc., for cancellation of the bonds on the above referenced wells. Since your Company has complied with all the rules and regulations of the Oil and Gas Conservation Commission of the State of Arizona, we have no objections to the cancellation of these bonds if that is your desire. Would you please advise us if you wish these bonds to be released.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rb

August 3, 1972

Mrs. Jo Ratcliff
Four Corners Sample Cut Association
P. O. Box 899
Farmington, New Mexico 87401

Dear Mrs. Ratcliff:

The following permit was issued since July 21, 1972.

St. Marh Parish Land Company
2-16 Tseh-da'-kate'
NW/SE Section 16-T36N-R-29E
Apache County-our File No. 590

and,

St. Mary Parish Land Company
1-30 Ghee-'ateen
NE/SW Section 30-T37N-R30E
Apache County-our File No. 591

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/r1b

August 3, 1972

Mr. Frank Getscher
P. O. Box 98
Scottsdale, Arizona 85252

Dear Mr. Getscher:

The following permit was issued on August 2, 1972.

St. Mary Parish Land Company
1-30 Ghee-'ateen
NE/SW Section 30-T37N-R30E
Apache County
Our File #591

St. Mary Parish Land Company
2-16 Tseh-da'-kate'
NW/SE Section 16-T37N-R29E
Apache County
Our File #590

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/r1b

August 2, 1972

Mr. William R. Speer
Consulting Geologist
Petroleum Club Plaza Building
P. O. Box 255
Farmington, New Mexico 87401

Re: St. Mary Parish Land Company
1-30 Ghee-'ateen
NE/SW Section 30-T37N-R30E
Apache County
Our File #591

St. Mary Parish Land Company
Q-16-Tseh-da'-kate'
NW/SE Section 16-T37N-R29E
Apache County
Our File #590

Dear Mr. Speer:

Enclosed please find Receipt Nos. 2925 and 2926, covering the \$25 filing fee per well. Also a copy of your Approved Application for Permit to Drill and Permit to Drill Nos. 590 and 591.

Also enclosed are miscellaneous instruction sheets concerning samples and other Commission requirements.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

Encs.

WILLIAM R. SPEER
CONSULTING GEOLOGIST
Petroleum Club Plaza Bldg.
Farmington, New Mexico 87401

P. O. BOX 255 PHONE 505-325-7789
Certified Petroleum Geologist # 238
Petroleum and Mineral Evaluation and Management

July 17, 1972

Mr. John Bannister
Arizona Oil & Gas Conservation Commission
4515 No. 7th Avenue
Phoenix, Arizona 85013

Dear John,

Enclosed are applications for permit to drill two wells in Apache Co., Arizona. I will be acting as agent for St. Mary Parish Land Co., who will be the operator for these wells. It is my understanding that Bill Lagos, Vice-President for St. Mary, has previously talked to you about the requirements for operating in Arizona, ie. Organization Report, Bonding, etc. I also understand that he has filed the organization report and has applied for the bonds through their insurance agents in Denver. If you have not recieved copies or verification of each, please let me know. I would appreciate your returning the approval for these applications to me at Box 255, Farmington, New Mexico, 87401, rather than to St. Mary's office in Denver. Looking forward to finding oil for you, Arizona and St. Mary's et all

Very truly yours,

Bill

William R. Speer

WRS/as

PAYEE: DETACH THIS STATEMENT BEFORE DEPOSITING CHECK

ST. MARY PARISH LAND COMPANY

DATE	INVOICE NO.	DESCRIPTION	AMOUNT	DISCOUNT OR DEDUCTION	NET AMOUNT
		Drilling Application for Well 2-16 North Lukachukai AFE .041			25.00
		Ap1-02-001-20167	10,510		

No 2592