

P-11

Sinclair Oil ~~Co.~~ Navajo Tribal #1 3-6
NE/NE Sec 28-T37N-R14E, Coconino Co.

County Cocaine

Area _____

Lease No. 1-149-Ind 8831

Well Name Sinclair Oil & Gas Navajo #1 (see Whittwind Road 7.5' Quad)
 Location C-N/2 NE Sec 28 Twp 37N Range 14E Footage 400 fsl 1900 fwl
 Elev 6609 Gr 6620 KB Date 5-20-52 Spud 5-20-52 Completed Oct. 25, '52 Total Depth 7210
 Footage 660' FNL; 1320' FEL

Contractor _____

Drilled by Rotary
 Cable Tool _____

Casing Size	Depth	Cement
<u>13 3/8</u>	<u>285</u>	<u>220 SX</u>
<u>7</u>	<u>6224</u>	<u>250 SX</u>

Production Horizon _____
 Initial Production D & A

REMARKS _____

Elec Logs Am Strat; Correlated to sample log; Micro Sample Log Am Strat
 Applic. Plugging Completion (0-7210') Sample Descript. _____
 to Plug Record Report _____ Sample Set 7-287, P-114
 Core Analysis _____
 DSTs _____

Water well accepted by _____

Bond Co. Federal Inc. Co. 7515594 United States Guaranty Co.
 & No. _____ Date _____
 Bond Am't \$ 10000.00 Cancelled 8-1453 Organization Report
 Filing Receipt _____ Dated _____ Well Book Plat Book
 API No. 02-005-05030 Loc. Plat Dedication N/2 NE/4

Permit Number None Date Issued 12-14-47

#3-6

Formation Tops	Scout	Sample	E. Log	Remarks
Carmel	20			
Navajo	80			
Kayenta	1090			
Chinle	1820			
Wingate	1660			
Moenkopi	2820			
Cocconino	3130			
Supai	3788			
Rice	4360			
Hermosa	4660			
Redwall Miss	5570			
Muav Ls.	5990			
Bright Angel sh	6570			
Tapeats	7180			

DSTs

CORES: Intervals, analysis

STATE LAND DEPARTMENT

STATE OF ARIZONA

Form O&G 56

Form Prescribed Under Oil and Gas Conservation Act of 1951

ABANDONMENT AND PLUGGING RECORD

(Within thirty days after the plugging of any well has been accomplished, the owner or operator thereof shall file this form with the Commissioner, setting forth in detail the method used in plugging the well.)

PLUGGING METHODS AND PROCEDURE-- The methods and procedure for plugging a well shall be as follows: (a) The bottom of the hole shall be filled to, or a bridge shall be placed at, the top of each producing formation open to the well bore, and in either event a cement plug not less than fifty (50) feet in length shall be placed immediately above each producing formation open to the well bore when ever possible.

(b) A cement plug not less than fifty (50) feet in length shall be placed at approximately fifty (50) feet below all fresh-water-bearing strata.

(c) A plug shall be placed at or near the surface of the ground in each hole.

(d) The interval between plugs shall be filled with heavy-mud-laden fluid.

(e) An uncased hole shall be plugged with heavy mud up to the base of the surface string, at which point a plug of not less than fifty (50) feet of cement shall be placed.

Operator Sinclair Oil & Gas Company Field Wildcat

Pool Wildcat

County Coconino

Address all correspondence concerning this form to: P.O.Box 521

Street: _____ City Tulsa State Oklahoma

Lease Name: Navajo Tribal Well No. 1 Sec. 28 Twp. 37N Rge. 14E

Date well was plugged October 25, 19 52

Was the well plugged according to regulations of the Commissioner? Yes

Set out method used in plugging well and record of casing pulled: _____

O V E R

Orig. & cc: State Land Department, 422 Arizona State Office Bldg., Phoenix, Arizona.

cc: WHC-3, EGC, File

STATE OF ~~ARIZONA~~ Texas

(AFFIDAVIT)

COUNTY OF Midland

SINCLAIR OIL & GAS COMPANY

BY J.T. Reeves

(Operator) J.T. Reeves

Before me, the undersigned authority, on this day personally appeared J. T. Reeves, Div. Dupt., known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.

Subscribed and sworn to before me this the 28th day of Oct. 19 52

My commission expires:

6-1-53

D. R. Dickson
Notary Public in and for Midland Co. Texas

W.C. Reeves

RECEIVED
MAY 30 1952
STATE LAND
DEPT.

WELL 1, NAVAJO TRIBAL TRACT, Section 28, Twp 37N, R 14E, Coconino County, Arizona

Drilled to TD-7210'. Plugged and Abandoned 10-25-52.

Hole filled with heavy mud 7120-7210'.

Cement Plug 7000-7120' & 6450-6550' (open hole).

Set Cement opposite perforations in 7" casing - 6050-85', 5826-42' & 5730-80'.

Set cement plugs - 2900-3000', 2650-2750', 1600-1680', 1100-1300'.

Cut off 7" casing @ 960' and recovered 960' of 7" casing.

Set cement plug on top of stub of 7" casing 920-970'. No water sands encountered in hole.

Set cement plug inside 13-3/8" OD surface casing 230-280'.

Set cement plug inside top of 13-3/8" OD surface casing - Surface 0'-30', w/10' length of 4" pipe extending 4-feet above ground level and filled with cement.

Heavy Laden mud was placed between all Cement Plugs.

Cellar and pits filled and location cleaned up and leveled.

STATE LAND DEPARTMENT

STATE OF ARIZONA

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- (b) A cement plug not less than fifty (50) feet in length shall be placed at approximately fifty (50) feet below all fresh-water-bearing strata.
- (c) A plug shall be placed at or near the surface of the ground in each hole.
- (d) The interval between plugs shall be filled with heavy-mud-laden fluid.
- (e) An uncased hole shall be plugged with heavy mud up to the base of the surface string, at which point a plug of not less than fifty (50) feet of cement shall be placed.

Operator Sinclair Oil & Gas Co. Field Wildcat
 Pool Wildcat
 County Coconino

Address all correspondence concerning this form to: J. T. Keevas

Street: P. O. Box 1470 City Midland State Texas

Lease Name Navajo Tribal Well No. 1 Sec. 28 Twp. 37N Rge. 14E

Date well was plugged October 24, 1952

Was the well plugged according to regulations of the Commissioner? No-U.S.G.S

Set out method used in plugging well and record of casing pulled: Cement Plugs

7000'-7120'; 6450'-6550'; 5730'-6085'. 7" casing cut off at 925' and pulled.

35' cement plug at top of 7" casing. 50' cement plug at bottom of surface casing. 30'

cement plug at top of surface casing, with 10' length 4" pipe extending 4' above ground

level.

(AFFIDAVIT)

STATE OF ARIZONA

COUNTY OF Coconino

Sinclair Oil & Gas Co.
By Robert A. Connell Jr. Dist. Foreman
 (Operator)

Before me, the undersigned authority, on this day personally appeared Robert A. Connell Jr., known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.

Subscribed and sworn to before me this the 27th day of October 1952

My commission expires:

My Commission Expires Jan. 28, 1955

W. Wilson
 My Commission Expires Jan. 28, 1955
 Notary Public in and for Arizona

9
400 permit

ARIZONA STATE LAND DEPARTMENT
Sundry Notices and Reports on Wells

Lease or Navajo Tribal
Permit No. 1-149-Ind 8831

- Notice of intention to drill.....
- Notice of intention to change plans.....
- Notice of date for test of water shut-off.....
- Report on result of test of water shut-off.....
- Notice of intention to re-drill or repair well.....
- Notice of intention to shoot.....
- Subsequent record of shooting.....
- Record of perforating casing.....
- Notice of intention to pull or otherwise alter casing.....
- Notice of intention to abandon well.....
- Subsequent report of abandonment.....
- Supplementary well history.....

(Indicate above by check mark nature of report, notice or other data)

Oct. 12, 19 52

Following is a (Notice of intention to do work) on land under (permit) described as follows:
(Report of work done) (lease)

Well No. 1 - ~~G-11~~ NE 1/4 Sec. 23 37-N 11-E
SW SE SW Section Township Range
Coconino, County, Arizona

The well is located 660' feet (S) of North line and 1320' feet
(W) of East line of

Section 28-37N-11E
The elevation of the derrick floor above sea level is _____ feet

DETAILS OF PLAN OF WORK

(State names of an expected depth to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other proposed work.)

TD-7210; Set 6224' 7" OD 26# SS casing at 6224' from surface and cemented with 250 sax cnt.
Pumped plug to 6200' inside pipe and left for positive shut off.

Approved _____ Date _____ Company Sinclair Oil & Gas Co.
By *J. T. Reeves* J. T. Reeves
Division Supt.
Title
Address Box #1470, Midland, Texas
Arizona State Land Department

Address _____
NOTE:—Reports on this form to be submitted in triplicate to the Commissioner for approval.
Orig. & 2-cc: Arizona State Land Dept., Phoenix, Arizona
cc: WAC, File

*5
no permit*

COCOONING COUNTY, ARIZONA

No. Per. No.

7909—

Sinclair Oil & Gas, Phillips Petroleum & Skelly Oil Company
Navajo Tribal No. 1

Sec. 28, T 37 N, R 14 E

3115 FNL & 6750 FEL of Navajo Lands 8831 Tract No. 3

SPECIAL: Lion Oil/Charles B. Morgan - 7/3/57

8-7-57: LR to Mr. Charles B. Morgan

LETTER REPORT (No report to subscribers)
August 7, 1957

4800-6000: No fossils found

5560: Suggested top Mississippian limestone, by lithology

Samples examined from 4820 to 6000 feet. 8/7/57

Quaternary <sup>Swichian ~~State~~ /
7th. go to bal.
(Subject to revision) #1</sup>
0-20 Alluvium

Jurassic

San Rafael Group

20-80 - Carmel formation

80-1090 - Navajo sandstone

1090-1660 - Kayenta formation

1660-1820 - Wingate sandstone

Upper Triassic

Chinle Formation

1820-2060 - upper member

2060-2490 - @ " "

2490-2730 - lower member

2730-2820 - 1 Shinarump Cg.

Lower Triassic

2820 - 3130 - Moenkopi

Middle Permian

3130 - 3780 - Coconino

3780 - 4360 - Supai

Permian-Penn.

4360 - 4660 - Rico formation

Penn.

4660 - 5570 - Hermosa

Mississippian

5570 - 5990 - Redwall

4. permit

Middle Cambrian

5990-6570 - Meear ls.

6570-7180 - Bright Angel sh.

Lower Cambrian

7180-7210 - Topcat

TD 7210

4/10 permit

Quaternary 0-20	Swilkie to ^{7th} total ^{total} (Subject to min. ^{min.}) Alluvium	2150-2820 - Lower Tertiary	Stinsons Camp Cg.	Middle Cambrian 5990-6570 - 6570-7180 -	Mission - L. Bright Angel sh.
Jurassic San Rafael Group 20-80 -	Cornel formation Navajo sandstone Kayenta formation Wingate sandstone	Middle Permian 3130-3280 - 3788-4360 - Permian-Sinn. 4360-4660 -	Corona Sipah	Lower Cambrian 7180-7210 -	T D 7210
Upper Tertiary Chinle Formation 1820-2060 - 2060-2490 - 2490-2730 -	Upper member " " Lower member	Perm 4660-5570 - Mississippian 5570-5990 -	Hermosa Redwall		1/4 permit

1/4 permit

Sinclair Oil & Gas No. 1 Navajo Tribal
 G N $\frac{1}{2}$ NE Section 28, T. 37 N., R. 14 E. (Proj.)
 Coconino County, Arizona

Elevation 6009' gr.
 Casing 13 3/8 @ 285 w/220 ax.
 7" @ 622 2/250 ax.

Depth	Formation
0-20	Alluvium
20-80	?
80	Red brown sandy and calcareous shale
1160	Light red brown, fine to medium sandstone
1260	Red brown sandy shale
1355	Red brown sl. calcareous sandstone
1470	Interbedded red brown sandstone and shale
1636	Light red brown sandstone
2005	Dark red brown to purple calcareous shale
2040	Red brown calcareous sandstone
2160	Red brown to purple calcareous shale
2200	Red brown shaly sandstone
2240	Red brown shale
2500	Interbedded brown and green shale and sandstone
2700	Gray green shale with sandy streaks
2812	Gray slightly conglomerate sandstone with shale streaks
2940	Red brown shale with some green shale
3000	Red brown sandstone
3300	Interbedded red brown sandstone and shale with gypsum
3415	Light red brown sandstone
3600	Light red brown sandstone w/shale streaks
3740	Red brown calcareous shale with sandstone streaks
4200	Red brown shale
4315	Red brown sandstone with shale streaks
4480	Red brown shale, calc. with lime streaks
4500	Green shale
4620	Red brown sandstone and shale with lime streaks
4800	Red brown sandstone with shale streaks
5200	Interbedded sandstone and shale.
5360	Red brown calcareous sandstone
5370	Gray to pink limestone
5552	Red brown calcareous sandstone with limestone streaks
5730	Gray sub-crystalline limestone, cherty
5860	Gray to white sub-crystalline limestone, oolitic
6205	Interbedded limestone and dolomite
6225	Red brown and green calcareous shales
6255	Gray crystalline limestone
6300	Interbedded gray sub-crystalline limestone and sandstone
6505	Gray dolomitic limestone
6555	Gray dolomitic limestone and sandstone with glauconite
6590	Red brown and gray sandy shale
6740	Gray green very shaly dolomite with glauconite
6790	Dark gray sub-crystalline limestone with shale streaks
6865	Gray-brown sub-crystalline limestone sl. oolitic
6895	Gray dolomitic limestone with glauconite
7065	Inter-bedded glauconitic sandstone and gray shale.
7145	Gray hd. quartzitic sandstone
7180	Interbedded quartzitic sandstone and gray shale
7211	T.D. Gray quartzitic sandstone with some fladspar

3-6

Apparently by Sinclair
 see correspondence.

ARIZONA STATE LAND DEPARTMENT
Sundry Notices and Reports on Wells

Lease or Navajo Tribal
Permit No. 1-149-Ind-8831

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- Subsequent record of shooting.....
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- Notice of intention to pull or otherwise alter casing.....
- Notice of intention to abandon well.....
- Subsequent report of abandonment.....
- Supplementary well history.....

Run 7"OD 26# J-55 SS Casing set @ approx. 6210' from
surface & cement with 300-sacks.

(Indicate above by check mark nature of report, notice or other data)

October 1, 1952

Following is a (Notice of intention to do work) on land under (permit) described as follows:
(Report of work done) (lease)

Well No. 1 ^{SW SE SW} ~~C E NE~~ Sec. 28 37-N 14-E
Section Township Range

The well is located 660' feet (S) of North line and 1320' feet
(W) of East line of

Section 28-37N-14E

The elevation of the derrick floor above sea level is _____ feet

DETAILS OF PLAN OF WORK

(State names of an expected depth to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other proposed work.)

On October 4th or 5th propose to set 7"OD 26# J-55 SS Casing @ approx. 6210' from surface
and cement with 300-sacks cement.

10-1-52 TD-7210' Line

Approved _____ Date _____ Company Sinclair Oil & Gas Company
By *J.T. Reeves* J.T. Reeves
Division Superintendent
Address Box 1470, Midland, Texas

Arizona State Land Department
Address _____

NOTE:—Reports on this form to be submitted in triplicate to the Commissioner for approval.

Orig. & 2-cc: Arizona State Land Department, Phoenix, Arizona
cc: WIC, File

No permit

STATE LAND DEPARTMENT
STATE OF ARIZONA

Form OG 51

Form Prescribed Under Oil and Gas Conservation Act of 1951

NOTICE OF INTENTION TO DRILL NEW WELL

This notice and surety bond must be filed and permit
must be granted before drilling begins.

Williams Ariz. December 12 1951

State Land Commissioner

In compliance with Statewide Rule 3, notice is hereby given that it is our
intention to commence the work of drilling well No. _____ Sec. _____,
Well No. 1, Tract No. 3, Navajo Indian Reservation, Coconino County
T. _____, R. _____, _____ B. & M., _____ Field,
_____ County.

Legal description of lease See attached plat
(Attach map or plat to scale)
(SW SE SW 28-37N-14E)

Location of Well: 6750' west of the most westerly east line and 3115' south of
(Give exact footage from section corners or other

the north line of Tract No. 3 Well to be known as Well No. 1 Navajo Tribal.
legal subdivisions or streets)

Proposed drilling depth 6900' feet. Acres in drilling unit 40. Has
surety bond been filed? Yes. Is location a regular or exception to
spacing rule? Regular.

Elevation of ground above sea level 6609 feet.

All depth measurements taken from top of Surface of ground
(Derrick, floor, Rotary Table or Kelly
Bushing) which is _____ feet above the ground.

PROPOSED CASING PROGRAM

Size of Casing Inches A.P.I.	Weight	Grade and Type	Top	Bottom	Cementing Depths
13-3/8"OD	48#	H-40 SS	0	600-700	400'
9-5/8"OD	40#	J-55 SS	0	4000'	4000'
7"OD	26#	J-55 SS	0	6900'	6900'

Intended Zone or Zones of completion:
Name Perforated Interval
Wildcat well - will test all formations to Pre-Cambrian

AFFIDAVIT:
I hereby certify under the penalty of perjury, that the information contained
and statements herein made are to the best of my knowledge and belief, true, correct
and complete.

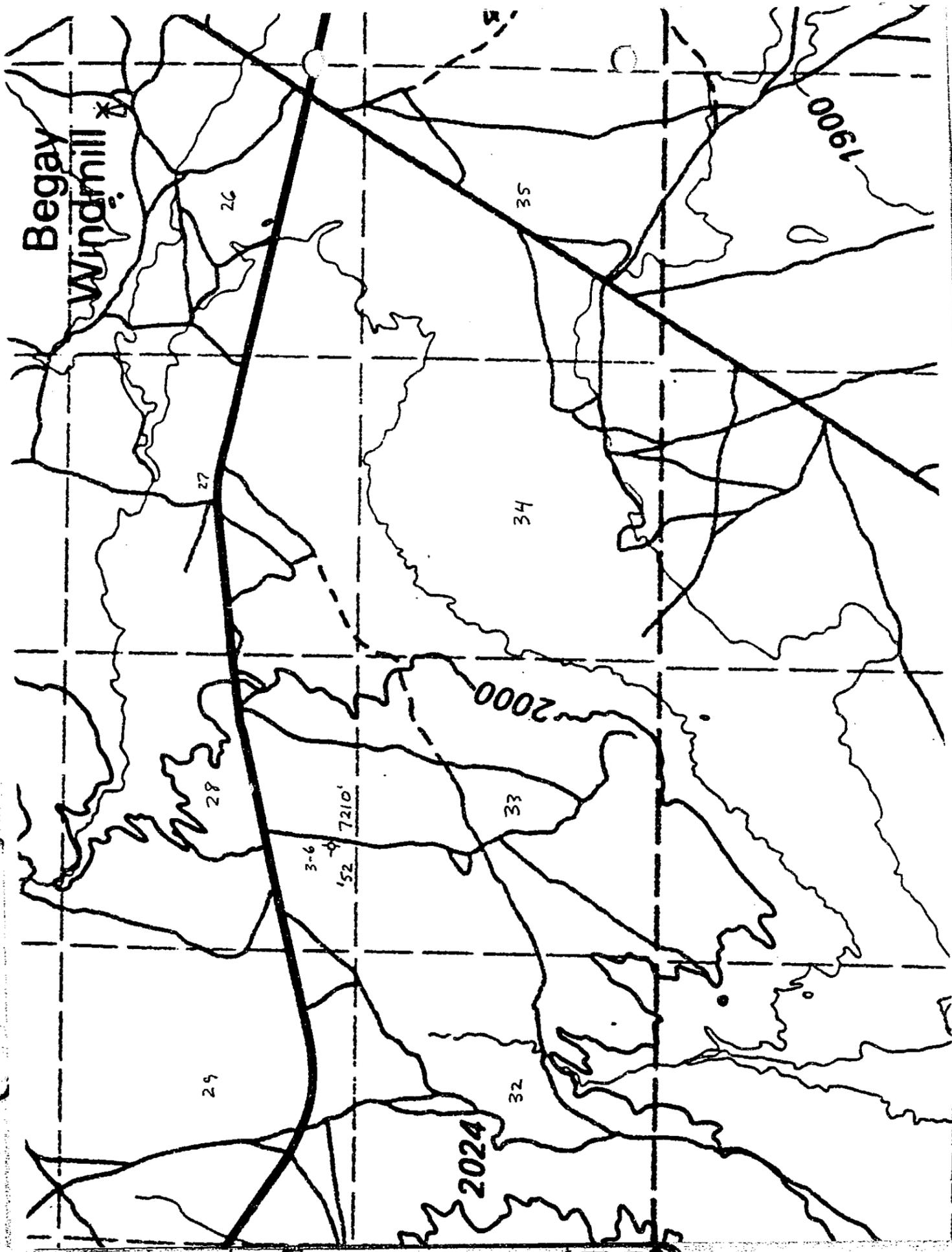
Sinclair Oil & Gas Company
(Applicant)
By [Signature]
B. Kennedy

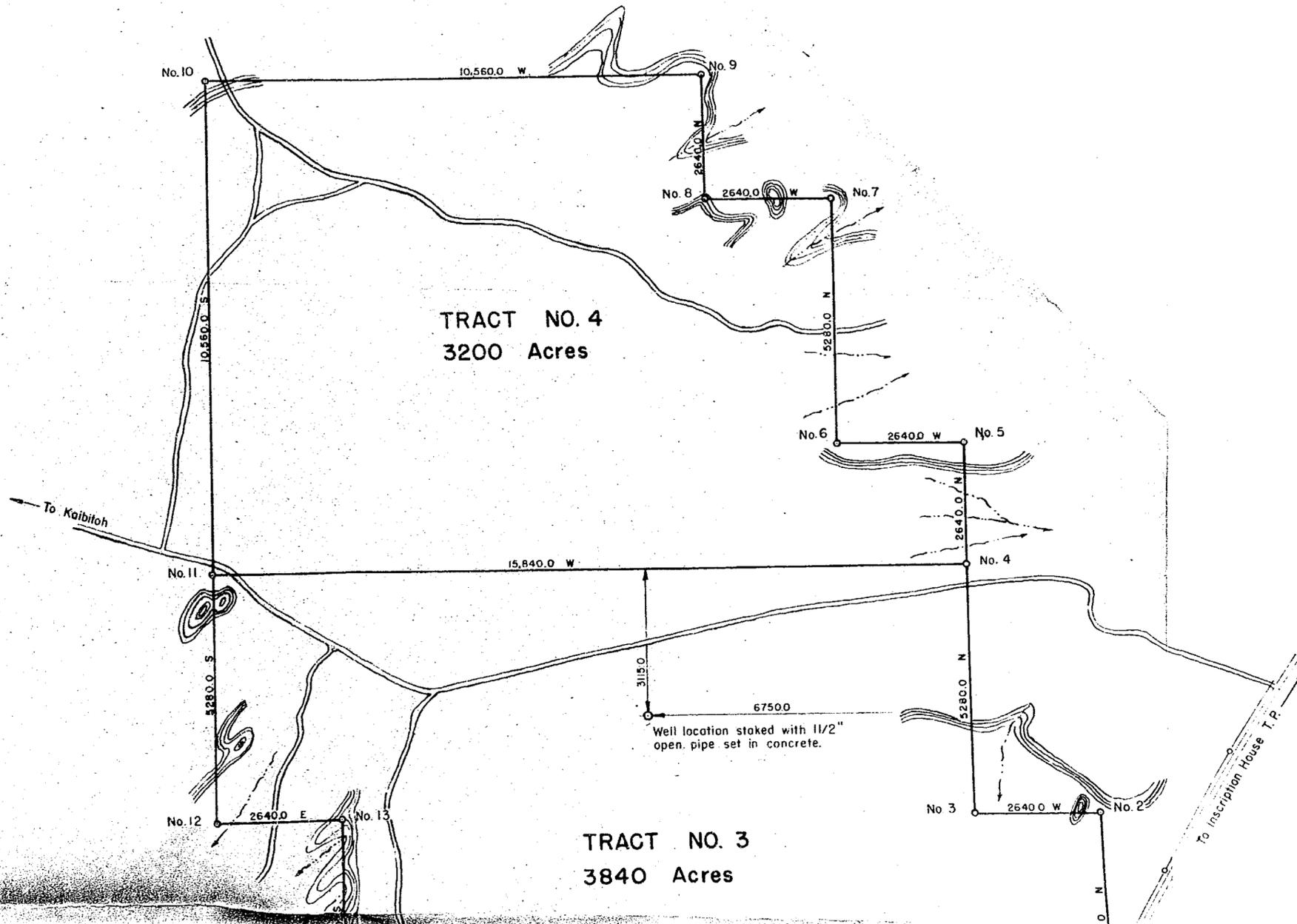
Application approved this 14th day of December 1951

Permit NO. _____

[Signature]
State Land Commissioner

11
Permit

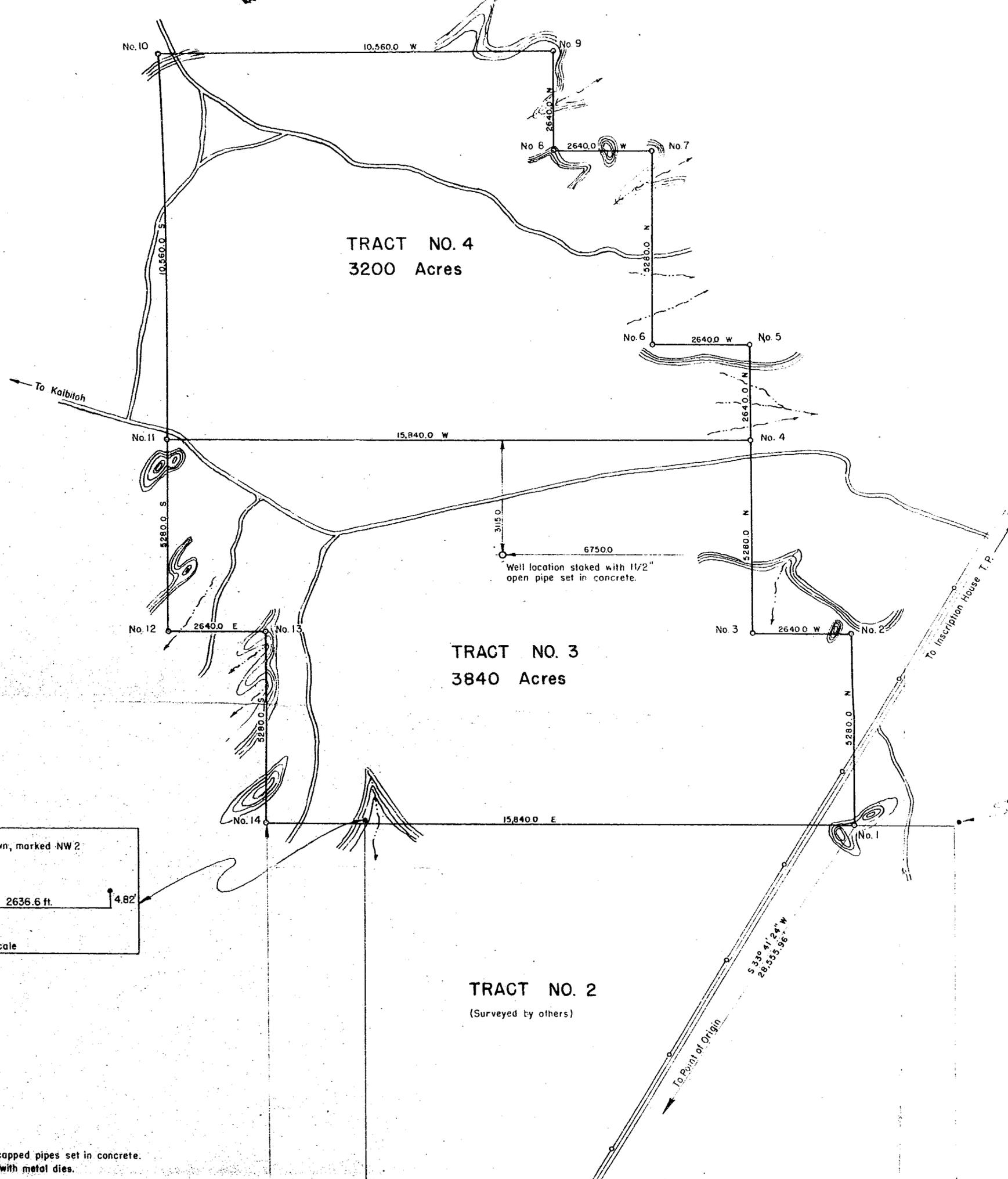




TRACT NO. 4
3200 Acres

TRACT NO. 3
3840 Acres

Found a 1 1/2" pipe as shown, marked NE 2



Found a 1 1/2" pipe as shown, marked NW 2

← To SW Corner Tract 3 2636.6 ft. West

4.82'

Not to scale

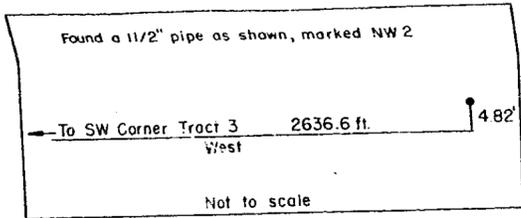
Found a 1 1/2" pipe as shown, marked NE 2

← To SE Corner Tract 3 2766.43 ft. West

45.45'

Not to scale

NOTE:
Points No. 1 to No. 14 are 1 1/2" capped pipes set in concrete.
Designation stamped on cap with metal dies.



TRACT NO. 2
(Surveyed by others)

NOTE:
Points No. 1 to No. 14 are 1 1/2" capped pipes set in concrete.
Designation stamped on cap with metal dies.

23,760.0 NORTH

TRACT NO. 1
(Surveyed by others)

LAND TIE FROM POINT OF ORIGIN
Point of origin lies North 29.0921 Miles
and East 7.1164 Miles from southwest
corner of Section 19, T. 31 N., R. 13 E.,
G.B.S.R.B.&M.

LAT. 36°30'

NAVAJO
HOPI

Point of Origin
1 1/2" Capped Pin

INDIAN
INDIAN

RESERVATION
RESERVATION

LAT. 36°30'

Engineers Certificate
This is to certify that I am a registered Civil
Engineer in the State of Arizona and that this
plat shows the results of a survey made by me.
The survey monuments shown hereon actually exist
and the plat is true and correct to the best of my
knowledge and belief.

Signed:
C.W. Dryden, Reg. Civil Engr.

ARIZONA ENGINEERING COMPANY

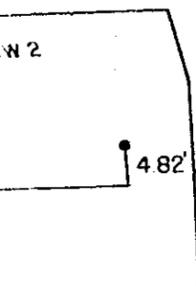
SURVEY OF TRACTS NO. 3 & NO. 4
COW SPRINGS ANTICLINE
NAVAJO INDIAN RESERVATION

Scale: 1" = 2000' Date: NOVEMBER 1951

SURVEYED BY:
C.W. Dryden, Registered Civil Engineer

Handwritten notes:
35 Miles West
8.34 Miles East
57.91 Miles North
1.22 Miles East





TRACT NO. 2

(Surveyed by others)

S 33° 41' 24" W
20,555.96'

To Point of Origin

es set in concrete.
dies.

23,760.0 NORTH

Line
Telephone
Highway

TRACT NO. 1

(Surveyed by others)

FROM POINT OF ORIGIN
in lles North 29.0921 Miles
71164 Miles from southwest
Section 19, T. 31N., R. 13E.,
& M.

Point of Origin
1 1/2" Capped Pin

VAJO
PI

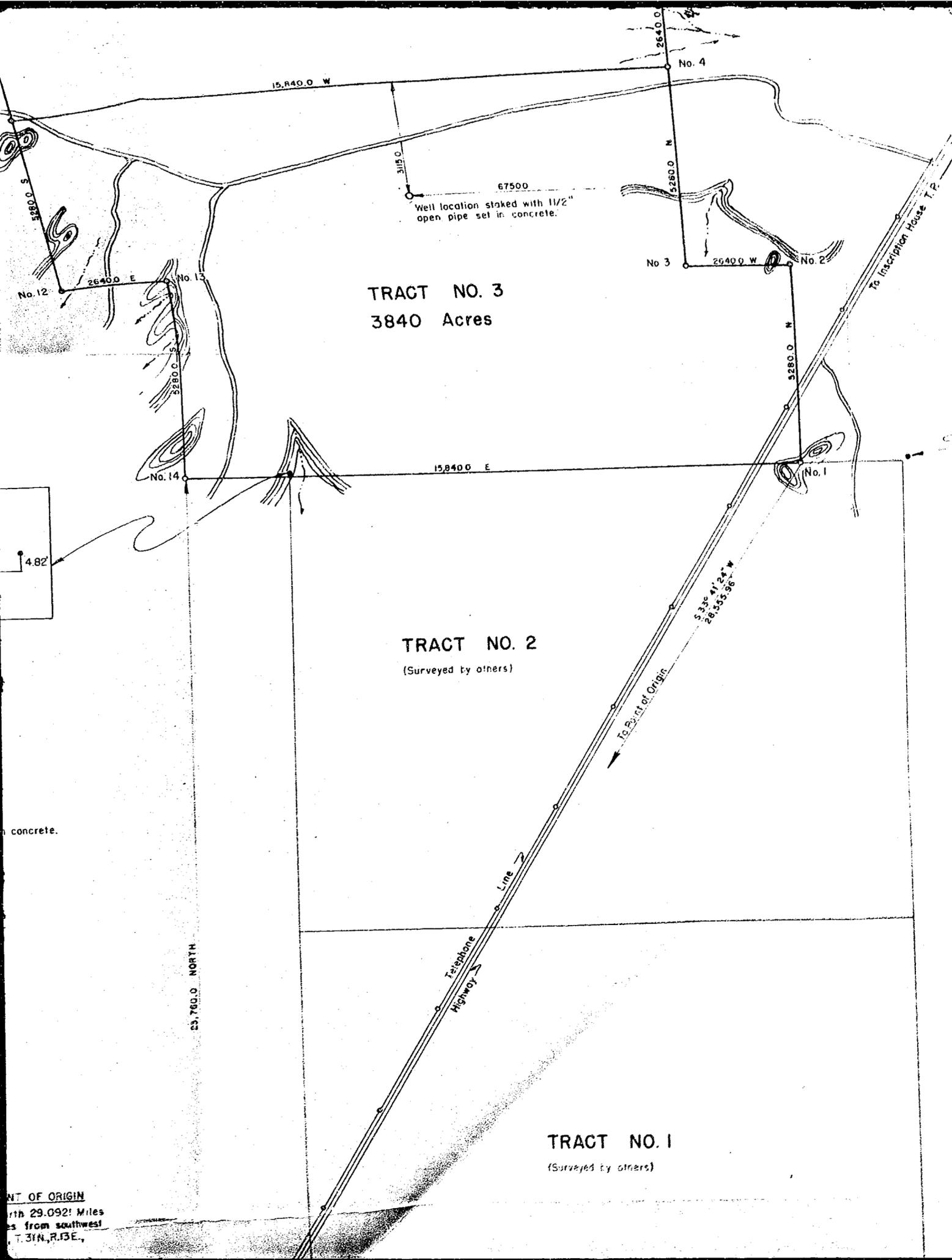
INDIAN
INDIAN

To Tongala T.P.

ne.
exist
my

[Signature]
ngr.





TRACT NO. 3
3840 Acres

TRACT NO. 2
(Surveyed by others)

TRACT NO. 1
(Surveyed by others)

Found a 1 1/2" pipe as shown, marked NE 2
 ← To SE Corner Tract 3 2766.43 ft. West
 Not to scale

Handwritten notes:
 38 Miles West
 5.34 Miles East
 5.97 Miles East
 1.22 Miles East

POINT OF ORIGIN
 with 29.092 Miles
 from southwest
 T. 31N, R. 13E.

all
 -1.7N-11E, Coconino Co.

Sinclair Oil & Gas No. 1 Navajo Tribal
 C N $\frac{1}{2}$ NE Section 28, T. 37 N., R. 14 E. (Proj.)
 Coconino County, Arizona

Elevation 6609' gr.
 Casing 13 3/8 @ 285 w/220 sx.
 7" @ 6224 2/250 sx.

<u>Depth</u>	<u>Formation</u>
0-20	Alluvium
20-80	?
80	Red brown sandy and calcareous shale
1160	Light red brown, fine to medium sandstone
1260	Red brown sandy shale
1355	Red brown sl. calcareous sandstone
1470	Interbedded red brown sandstone and shale
1636	Light red brown sandstone
2005	Dark red brown to purple calcareous shale
2040	Red brown calcareous sandstone
2160	Red brown to purple calcareous shale
2200	Red brown shaly sandstone
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2500	Interbedded brown and green shale and sandstone
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2812	Gray slightly conglomerate sandstone with shale streaks
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3300	Interbedded red brown sandstone and shale with gypsum
3415	Light red brown sandstone
3600	Light red brown sandstone w/shale streaks
3740	Red brown calcareous shale with sandstone streaks
4200	Red brown shale
4315	Red brown sandstone with shale streaks
4480	Red brown shale, calc. with lime streaks
4500	Green shale
4620	Red brown sandstone and shale with lime streaks
4800	Red brown sandstone with shale streaks
5200	Interbedded sandstone and shale.
5360	Red brown calcareous sandstone
5370	Gray to pink limestone
5552	Red brown calcareous sandstone with limestone streaks
5730	Gray sub-crystalline limestone, cherty
5860	Gray to white sub-crystalline limestone, oolitic
6205	Interbedded limestone and dolomite
6225	Red brown and green calcareous shales
6255	Gray crystalline limestone
6300	Interbedded gray sub-crystalline limestone and sandstone
6505	Gray dolomitic limestone
6555	Gray dolomitic limestone and sandstone with glauconite
6590	Red brown and gray sandy shale
6740	Gray green very shaly dolomite with glauconite
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6865	Gray-brown sub-crystalline limestone sl. oolitic
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7145	Gray hd. quartzitic sandstone
7180	Interbedded quartzitic sandstone and gray shale
7211	T.D. Gray quartzitic sandstone with some feldspar

Sinclair Oil & Gas No. 1 Navajo Tribal
 C N $\frac{1}{2}$ NE Section 28, T. 37 N., R. 14 E. (Proj.)
 Coconino County, Arizona

Elevation 6609' gr.
 Casing 13 3/8 @ 285 w/220 sx.
 7" @ 6224 2/250 sx.

<u>Depth</u>	<u>Formation</u>
0-20	Alluvium
20-80	?
80	Red brown sandy and calcareous shale
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4620	Red brown sandstone and shale with lime streaks
4800	Red brown sandstone with shale streaks
5200	Interbedded sandstone and shale
5360	Red brown calcareous sandstone
5370	Gray to pink limestone
5552	Red brown calcareous sandstone with limestone streaks
5730	Gray sub-crystalline limestone, cherty
5860	Gray to white sub-crystalline limestone, oolitic
6205	Interbedded limestone and dolomite
6225	Red brown and green calcareous shales
6255	Gray crystalline limestone
6300	Interbedded gray sub-crystalline limestone and sandstone
6505	Gray dolomitic limestone
6555	Gray dolomitic limestone and sandstone with glauconite
6590	Red brown and gray sandy shale
6740	Gray green very shaly dolomite with glauconite
6790	Dark gray sub-crystalline limestone with shale streaks
6865	Gray-brown sub-crystalline limestone sl. oolitic
6895	Gray dolomitic limestone with glauconite
7065	Inter-bedded glauconitic sandstone and gray shale.
7145	Gray hd. quartzitic sandstone
7180	Interbedded quartzitic sandstone and gray shale
7211	T.D. Gray quartzitic sandstone with some feldspar

Handwritten notes:
11
J
ER ✓



Handwritten: file in permit #20
Amoco Production Company
Security Life Building
Denver, Colorado 80202

September 13, 1972

Mr. E. A. Koester
Oil and Gas Conservation Commission
4515 N. 7th Avenue
Phoenix, Arizona 85013

Dear Ed:

Attached is our scout ticket on the Eisele well. This data was assembled in the "old days" of detailed scout checks so it should be pretty good. As you can see, there is no report of flowing gas and the TD is 4231 by the ticket. However, sample TD is 4260. The Schlumberger log gives a depth of 4190.

Our tops (from various workers):

Handwritten: Permit #20 1-16N-16E - Navajo Co.

- T/Naco Penn 2285' (E Log)
- T/Miss 3400' (E Log & Sample Log)
- T/Dev Martin 3730' (E Log)
- or
- T/Carbonate 3470' (Sample Log)

One of our geologists ran the samples in 1957 and felt Granite Wash was drilled from 3770' to about 4200' and that granite was penetrated to sample TD 4260. Geo Log gives 3730' as top pre-Cambrian granite. I am enclosing an extra Geo Log copy that you can have if you need it.

We believe there is a relatively normal section in the Sinclair Cow Springs ^{34N-9E} ~~28-57N-14E~~ well, based on regional correlations. The Collins well does indeed have a very thin Pennsylvanian section (78'), while wells to the south (Sinclair #1 Santa Fe 28N-1W and Lockhart #1 Babbitt, 27N-9E) appear to be lacking in Penn sediments. This area of thinning extends north into southern Utah. Frankly, Ed, I have not done enough work on a regional scale to say whether this is an isolated uplift as Turner implies or whether it is just a regional thinning out of the Paleozoic geosyncline to the west. This is part of an area I have been trying to get some studies started in, but have not been able to procure the personnel.

Handwritten: file 3-6

RECEIVED
SEP 13 1972
O & G CONS. COMM.

Mr. E. A. Koester
September 13, 1972
Page 2.

Apparently Humble is having velocity problems--witness their #2 well. I was surprised to hear they are moving southeast. Getting into the Sonoran embayment it looks like to me.

Hope the info will be of some help.

Sincerely,

Glenn

H. G. Richards

HGR/cdm

Enclosures: Scout Ticket
Geo Log

RECEIVED

SEP 13 1972

O & G CONS. COMM.

September 22, 1953

Federal Insurance Company
90 John Street
New York 38, New York

Attention: Mr. Stephen Plum

Dear Mr. Plum:

Enclosed please find a copy of our letter of August 14th, 1953 to the Valley National Company of Phoenix in which the blanket bond in the amount of \$10,000.00 issued to cover the drilling of oil and gas wells in the State of Arizona, has been terminated and that all requirements have been fully complied with.

Very truly yours,

James R. Burger,
Deputy State Land Commissioner,
State Land Department

JRB:mb
Encl.

No permit

STATE OF ARIZONA

STATE LAND DEPARTMENT

BOND FOR DRILLING OIL OR GAS WELL

State of Arizona)
County of Maricopa)

KNOW ALL MEN BY THESE PRESENTS:

That we, SINCLAIR OIL & GAS COMPANY, a Maine Corporation,
hereinafter called Principal, and UNITED STATES GUARANTEE COMPANY,
hereinafter called the Surety, are held and firmly bound unto the State of Arizona
in the sum of Ten Thousand Dollars (\$10,000) for the payment of which the Principal
and Surety bind themselves, their heirs, executors, administrators, successors and
assigns, jointly and severally, firmly by these presents.

Whereas the Principal has obtained a permit from the State Land
Commissioner to drill a well in search of oil or gas, and whereas said Principal is
required by provisions of the Oil and Gas Conservation Act of 1951 to deposit with
the said Commissioner a good and sufficient bond:

Now, therefore, the condition of the foregoing obligation is such that if
the Principal shall drill, case and plug all wells drilled by said Principal in
such manner as to prevent the escape of oil or gas from one stratum to another and
to prevent the intrusion of water into an oil or gas stratum from a separate
stratum, and to prevent the pollution of fresh water supplies by oil, gas or salt
water and in such manner as to prevent waste, and shall make reports to the
Commissioner showing the location of all oil and gas wells drilled by said
Principal, and shall file all logs and drilling records kept by said Principal
within six (6) months from the time of the completion or abandonment of any well
drilled for oil or gas and shall plug each dry or abandoned well in the manner
provided by the rules and regulations adopted by said Commissioner, then this
obligation to be null and void, otherwise to be and remain in full force and effect.

Witness our hands and seals this 17th day of October, 1951.

CANCELLED
DATE ATTEST: 8-14-53
Secretary

SINCLAIR OIL & GAS COMPANY
By John H. Hammett
Principal
Vice President

UNITED STATES GUARANTEE COMPANY
By B. M. Kram
Surety
Attorney-in-Fact

WITNESSES:
G. Domogalla
Tulsa, Oklahoma

Countersigned for the State of Arizona
THE VALLEY NATIONAL COMPANY - INSURANCE
By John H. Hammett
Resident Agent, Phoenix, Arizona.

Approved this 6th day of November, 1951

A. H. Jones
State Land Commissioner

CANCELLED
August 14, 1953
ORIGINAL in FILE
6

August 14, 1953

The Valley National Company
Insurance Division
P. O. Box 31
Phoenix, Arizona

Attention: Mr. John G. Howard

Re: Sinclair Oil & Gas Company

Dear Mr. Howard:

The blanket bond in the amount of \$10,000.00 was issued on October 17, 1951 to cover the wells for drilling of oil and gas in the State of Arizona by the Sinclair Oil and Gas Company as principal, and the United States Guarantee Company as surety, which bond was conditioned upon the drilling, casing and plugging of all oil and gas wells drilled to prevent the escape of oil or gas from one stratum to another, to prevent intrusion of water into an oil or gas stratum from a separate stratum, to prevent the pollution of fresh water supplies by oil, gas or salt water and to prevent waste.

In addition said bond was conditioned upon the submission of all reports required by the Oil and Gas Conservation Act of 1951 of the State of Arizona, and the Rules and Regulations of the State Land Department, such as logs, drilling records, and other reports as are required by said Rules and Regulations of the Oil and Gas Conservation Law of Arizona.

The records of the Department indicate that with respect to the wells drilled by the Sinclair Oil and Gas Company in Arizona, and from the well, Sinclair Oil-Navajo Tribal #1, located in Section 28, Township 37N., Range 14E., and the well known as Sinclair Oil-Santa Fe Pacific #1, located in Section 35, Township 28N., Range 1W., that all requirements as contained in said Oil and Gas Conservation Law of Arizona and the Rules and Regulations of the State Land Department, have been met and fully complied with by the said Sinclair Oil and Gas Company and therefore, the bond heretofore described may be terminated.

Very truly yours,

James R. Burger,
Deputy State Land Commissioner
State Land Department

JRB:mb

cc - Sinclair Oil & Gas Company

the permit

November 12, 1952

Mr. George Hemmway,
Sinclair Oil & Gas Company
P. O. Box 4005
Albuquerque, New Mexico

Dear Mr. Hemmway:

This will acknowledge receipt of the electric, radio-activity, sample logs and the microlog as well as the rotary engineering company report. We are indeed grateful for your cooperation in giving us this material, and as you stated we will receive our cut of the samples from the U. S. G. S. Groundwater office, Holbrook, Arizona.

We have received oil and gas forms 55 and 56 complete with proper signatures. This will complete our files on your Navajo - Tribal well. I hope that in the future we will have the opportunity of working together again.

Very truly yours,

Phillip W. Johnson, Geologist
State Land Department

PWJ:mb

No permit

October 29, 1952

Mr. Phillip W. Johnson
P. O. Box 2270
Tucson, Arizona

Dear Phil:

Enclosed please find a copy of a letter received from Mr. George A. Hemenway of the Sinclair Oil and Gas Company. We have also received the application to abandon, plug, etc., along with the abandonment and plugging record. No doubt the set of cuttings from this test will arrive in due time. I would like to know whether or not you wish me to forward the logs to you or just hold them until your next visit.

I am also enclosing a letter from Mr. J. R. Sager of the Shell Oil Company, received October 27th, and a copy of a letter from Mr. Frank Damerson of the Pure Oil Company which was received today.

Best regards.

Very truly yours,

Maribel Bates

mb

Permit

SINCLAIR OIL & GAS COMPANY

P. O. Box 4005
Albuquerque, New Mexico
October 23, 1952

Mr. Phillip W. Johnson, Geologist
State Land Department
Capitol Bldg. Annex
Phoenix, Arizona

Dear Mr. Johnson:

Enclosed are the following logs run on our Navajo
Tribal #1, Coconino County, Arizona:

- Handwritten notes:*
Reference to
log
from
Hemenway
- (1) Standard electrical log with formation tops, cores and drill stem tests indicated.
 - (2) Microlog.
 - (3) Lane Wells radioactivity log.
 - (4) Rotary Engineering Company final report.
 - (5) A condensed written sample log of the formations encountered while drilling this test.

The test is now being abandoned and Mr. Bonnell is carrying out a plugging and abandonment program in accordance with instructions from the U.S.G.S. Conservation Office at Farmington, New Mexico.

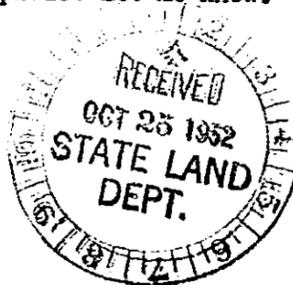
It is my understanding that you have, or will receive, your set of cuttings from this test from the U.S.G.S. Ground-water office, Holbrook, Arizona.

If there is any additional information which you need on this test, please let me know.

Very truly yours,

George A. Hemenway
George A. Hemenway
Division Geologist

GAH:jc
Enclosures



No permit

October 14, 1952

Mr. R. A. Bommell
% Monte Vista Hotel
Flagstaff, Arizona

Dear Bob:

In compliance with your request by phone this morning I am sending you oil and gas forms numbers 55 and 56 in triplicate for you to have filled and return to this office. I think this will clear up all the paper work and as soon as I receive the logs and other pertinent information concerning the well we will consider the hole complete.

Thank you again for all your cooperation and if I can be of any help in the future please feel free to call on me.

Very truly yours,

Phillip W. Johnson, Geologist
State Land Department

PWJ:mb
Enclosures

No permit

May 29, 1952

Mr. J. T. Reeves
Division Superintendent,
Sinclair Oil & Gas Company
Midland, Texas

Dear Mr. Reeves:

Approval granted on OG 51 Notice of Intention to Drill dated December 14th, 1951 and requiring the setting of a surface casing between 600-700' is hereby amended and approval is granted to set only 250' of surface casing consisting of 13-3/8" OD 48# H-40 SS casing because of the fact that no fresh water sand having been encountered in drilling to 1187' on well #1, Navajo Tribal, Coconino County.

Very truly yours,

W. W. Lane,
State Land Commissioner

WNL:mb

No permit

B-8

SINCLAIR OIL & GAS COMPANY

Midland, Texas
May 27, 1952

Mr. W. W. Lane,
State Land Commissioner
Phoenix, Arizona

Re: Well 1, Navajo Tribal
Coconino County.

Dear Sir:

Above well was spudded @ 3:40 AM 5-20-52. Present total depth is 1187' in Sandy Shale.

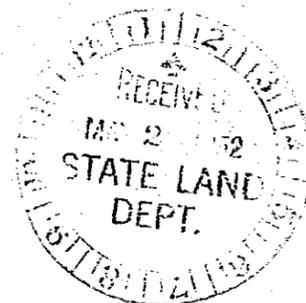
As per telephone conversation with you on May 26th, no fresh water sand has been encountered. We now wish to set approximately 250' of 13-3/8"OD 48# H-40 SS casing, to be cemented to surface, instead of the 600-700' of casing as shown on Form OG 51 Notice of Intention to Drill.

Yours very truly,



J. T. Reeves
Division Superintendent

/d



No permit