

U. S. LAND OFFICE Navajo Tribe of
Indians, Window Rock, Arizona
SERIAL NUMBER _____

LEASE OR PERMIT TO PROSPECT _____
14-20-603-5012

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company TEXAS PACIFIC COAL AND OIL COMPANY Address P.O. Box 2110, Fort Worth 1, Texas
Lessor or Tract Navajo Tribal "B" Field Wildcat State New Mexico
Well No. 1 Sec. 28 T. 32N R. 17W Meridian _____ County San Juan
Location 1910 ft. NE of N Line and 1890 ft. E of W Line of Sac. 28 Elevation 6028
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon
so far as can be determined from all available records.

Signed _____

Date August 9, 1960 Title Manager of Production

The summary on this page is for the condition of the well at above date.

Commenced drilling June 3, 1960 Finished drilling August 6, 1960

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from _____ to _____ No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
13 3/8	48	8	8	5078	Open end	See casing log			Surface casing
9 5/8	30	8	8	1250	Open end	See casing log			Intermediate casing
HISTORY OF OIL OR GAS WELL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8	524	450	Pump		Circulated
9 5/8	4301	1250	Pump		Circulated

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from _____ feet to 9336 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing DRY HOLE, 19____
The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____%
emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	520	520	Sand & Shale
520	824	304	Shale
824	1230	406	Sand & Shale
1230	1737	507	Shale
1737	1980	243	Shale
1980	2007	27	Shale & Sand
2007	2037	30	Shale
2037	2412	375	Sand & Shale
2412	3736	1324	Shale & Sand
3736	4088	352	Shale & Sand
4088	4548	460	Sand & Shale
4548	4655	107	Sand
4655	6047	1392	Sand & Shale
6047	6080	33	Sand & Shale
6080	6204	124	Shale, Sand & Chert
6204	6577	373	Shale & Sand
6577	6744	167	Shale
6744	6868	124	Shale & Sand
6868	6907	39	Shale
6907	8018	1111	Shale & Lime
8018	8034	16	Lime
8034	8144	110	Lime & Shale
8144	8171	27	Lime & Shale
8171	8295	124	Lime

U. S. LAND OFFICE
SPECIAL AGENT IN CHARGE
WASHINGTON, D. C.
12-2-28-2822
PLEASE OR PERMIT TO PROSPECT

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

[illegible]

Compressed drilling _____ 19____
 Finished drilling _____ 19____
 The summary on this page is for the condition of the well at above date.
 Date _____ August 2, 1960
 Title _____

(Deduct one by G)

OIL OR GAS SANDS OR ZONES

No. 1 from	to	No. 4 from	to
No. 2 from	to	No. 5 from	to
No. 3 from	to	No. 6 from	to

IMPORTANT WATER SANDS

No. 1 from _____ to _____
No. 2 from _____ to _____
No. 3 from _____ to _____
No. 4 from _____ to _____
No. 5 from _____ to _____
No. 6 from _____ to _____
No. 7 from _____ to _____
No. 8 from _____ to _____
No. 9 from _____ to _____
No. 10 from _____ to _____

CASING RECORD

[illegible]

HISTORY OF OIL OR GAS WELL

MUDGING AND CEMENTING RECORD

Rate cent	Weight kg	Number sacks of cement	Mortar used	Plaster used	Amount of mud used
1.00	100	1.00	1.00	1.00	1.00
1.00	100	1.00	1.00	1.00	1.00

PLUGS AND ADAPTERS

Adapters - /Material	Size	Length	Depth set
Heaving plug - /Material			

SHOOTING RECORD

[illegible]

TOOLS USED

Cable tools were used from	feet to	feet and from	feet to
Rotary tools were used from	feet to	feet and from	feet to

DATE:

It was well, all in per 24 hours emulsion; % water; and % sediment.	The production for the first 24 hours was barrels of fluid of which % was oil; % was to producing Gallons gasoline per 1,000 cu. ft. of gas Gravity, 48.6
---	---

EMPLOYEES

Driller		
Driller		

FORMATION RECORD

FORMATION	TOTAL FEET	TO-	FROM-
Line & Chert	29	8324	8295
Dolo. & Line	25	8349	8324
Line, Dolo. & Chert	2	8351	8349
Line & Shale	63	8316	8351
Line & Dolo. w/ Shale	42	8456	8316
Dolo.	5	8461	8456
Line & Shale	59	8530	8461
Line	205	8725	8530
Top Molas 8782	18	8743	8725
Line & Shale	18	8761	8743
Line & Dolo. & Shale	45	8788	8761
Line	34	8802	8788
Line & Shale	30	8832	8802
Limestone & Shale	16	8848	8832
Shale	69	8917	8848
Shale & Chert	137	9054	8917
Line & Shale	79	9103	9054
Line & Shale	87	9190	9103
Line, Shale & Chert Strks.	90	9280	9190
Line, Shale & Chert Strks.	56	9336	9280
Sand & Dolomite	58	9394	9336
Total Depth	1000	9394	9394

FORMATION RECORD—Continued

1-30054-01

MSAM - QJCT

NAVAJO TRIBAL "B" NO. 1

SAN JUAN COUNTY, NEW MEXICO

LOG OF CORES AND DRILL STEM TESTS

Core #1 8324-8349' - Rec. 25'

8324-29 Dolomite, drk. gray
8329-41 Dolomite w/calcite and blk. sh. lam.
8341-47 Lime, drk. to light gray
8347-49 Lime

Core #2 8349-8363' - Rec. 14'

8349-8363 Shale and lime

Core #3 8414-8456' - Rec. 42'

8414-8456 Lime and dolomite w/scattered lam. w/vug. por. along frac in
lime and dolomite

Core #4 8802-8832' - Rec. 30'

8802-8820 Broken lime. No sho.
8820-8832 Shale dark gray

DST #1 8406-8456

Tool open 2 1/2 hrs. strong blow to weak.
GTS 4 min., flowed sulphur water in 2 hrs. IHP 4220#, FHP 4160#, ISIP 3720#,
FSIP 3620#, IFP 740#, FFP 3200#

DST #2 8983-9103 - Test failed

DST #3 8983-9103

Tool open 1 1/2 hrs. Rec. 20' D.M. No sho. IFP 90#, FFP 90#, ISIP 120#,
FSIP 90#

DST #4 9198-9336

Tool open 1 1/2 hrs. Shi blo. 2 min. By passed tool

DST #5 9198-9336

Tool open 1 1/2 hrs. Shi blo. Rec. 623' D.M.
FP 350#, ISIP 3810#, FSIP 3430#

DST #6 8380-8420 - Pkr. failed

DST #7 8385-8425

Tool open 2 1/2 hrs. Stro. blo. GTS 8 min. WTS 1 1/2 hrs.

DST #8 8350-8420

Tool open 3 hrs. fair to weak blo. GTS 15 min. Rec. 60' D.M. 7700' sulphur
water. IFP 485#, FFP 3445#, ISIP 3625#, FSIP 3530#

DST #9 1736-40 (perforations in surface csg.) Tool open 8 1/2 hrs. Stro. blo. GTS
4 min. Rec. 2' D.M. No sho of oil or water. IFP 35# FFP 35# ISIP 402# FSIP
385#

THE HISTORY OF THE

REIGN OF THE

EMPEROR

OF THE

1647

OF THE
OF THE
OF THE
OF THE
OF THE

OF THE

1648

OF THE

OF THE

1649

OF THE

1650

OF THE

1651

OF THE

OF THE

1652

OF THE

OF THE

1653

OF THE

OF THE

OF THE

1654

OF THE

OF THE

1655

OF THE

OF THE

OF THE

OF THE

1656

OF THE

OF THE

1657

OF THE

OF THE

1658