

Name: Signal 71 Penney #1

AFE: 5001

31-9-36W

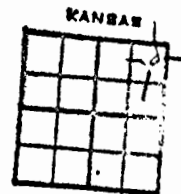
Location: 660' FNL, 660' FEL, Section 31, T-9-S, R-36-W, Thomas Co., Kansas

Elevation: 3463' G.L.

Contractor: Red Tiger Drilling Co.

Spud Date: 11-4-71 11:00 A.M.

LOG TOPS	DEPTH		
DAK	1670	ARB	5320
SC	2857	REAGAN	5636
TOP	3953	LTD	5679
LANS	4200	RTD	5679
BKC	4466		
MRW SD	4823		
MISS	4898		
ST. LOUIS	4973		
KIND	5153		



Date	Depth	Operations
1971		
11-3		Moving in rotary.
11-4		Rigging up - prep to spud.
11-5	456'	WOC. Drilled 456' past 24 hours. Ran 14 jts. 8-5/8", 24#, K-55, equipped w/3 centralizers & guide shoe. Set @ 454'. Cemented w/275 sxs Portland w/3% HA-5. Circulated - good cement.
11-6	1480'	Drilling Shale. Lost circulation @ 700'. Regained circulation with lost circulation material.
11-7	2175'	Drilling Shale.
11-8	2700'	Drilling.
11-9	3096'	Drilling Shale and Sand. Made 396' past 24 hours. Mud: 10.1#, 30 sec., 90,000 ppm.
11-10	3522'	Drilling Shale with trace of Sand. Made 426' past 24 hours. Mud: 9.9#, 30 sec., 90,000 ppm. Deviation 1/2° @ 3150'.
11-11	3661'	Drilling Lime. Made 139' past 24 hours. Cost to Date: \$18,004.
11-12	3917'	Drilling Lime, Sand and Chert. Made 256' past 24 hours. Cost to Date: \$20,684.
11-13	4035'	Taking DST #1
11-14	4210'	Drilling Shale and Limestone.
		DST #1 4001-4035' (Topeka Limestone): Tool open 90 mins. Rec. 940' salt water (37,000 ppm Cl). IF 207#, FF 434#, 60 min. ISIP 1127#, 90 min. FSIP 1112#, BHT 112.
11-15	4387'	Drilling. Cost to Date: \$25,500.
1-16	4570'	Drilling Limestone. Made 183' past 24 hours. Cost to Date: \$26,600.
11-17	4775'	Drilling Limestone. Made 205' past 24 hours. Cost to Date: \$27,600.
1-18	4965'	Drilling. Made 190' past 24 hours. Cost to Date: \$28,800.
11-19	5095'	Drilling Cherty Lime. Made 130' past 24 hours. Cost to Date: \$29,700.
11-20	5240'	Drilling.
11-21	5375'	Drilling Dolomite.
11-22	5493'	Drilling Dolomite and Lime. Cost to Date: \$32,000.
11-23	5650'	Drilling Lime and Sand. Made 157' past 24 hours. Cost to Date: \$33,200.
11-24	5679'	Logging. Made 29' past 24 hours. Cost to Date: \$39,800.
11-25	5679'	DST #2 5501-5516': Tool open 90 mins. Rec 2990' salt water. 30 min IFP 127#, 1 hr FFP 1251#, 1 hr ISIP 1360#, 3 hr FSIP 1360#. All other zones calculate wet or tight.
11-26	5679'	Plug #1 - 115 sxs @ 1925'; Plug #2 - 25 sxs @ 475'; Plug #3 - 10 sxs @ surface. Released rig @ 5:00 P.M. 11-25-71. P&A - Final Report.

JUL 26 1972

DRILLERS LOG

No. 1 Penney

31-9-36W

CASING RECORD:

8 5/8" @ 454'
w/275 sx cement

COMPANY: U.S. Signal Oil & Gas Co.
1971 Program

CONTRACTOR: RED TIGER DRILLING CO.

COMMENCED: November 4, 1971

COMPLETED: November 25, 1971

DESCRIPTION:

NE NE
31-9S-36W
Thomas County,
Kansas

TOTAL DEPTH: 5679'

ELEVATION:

FORMATION

FROM

TO

REMARKS

Sod & Shale w/sand	0	235
Sand	235	270
Shale	270	505
Shale & Sand	505	1020
Shale	1020	1145
Sand	1145	1280
Shale	1280	2155
Shale w/lime	2155	2335
D Sand	2335	2548
Blane	2548	2564
Shale & Red Bed	2564	2857
Anhydrite	2857	2889
Shale	2889	2950
Shale & Lime	2950	3213
Shale	3213	3510
Shale w/lime	3510	3572
Shale & Lime & Chert	3572	3640
Cherty Lime	3640	3661
Cherty Lime & Shale	3661	3720
Lime & Shale	3720	3895
Lime	3895	4965
Lime Cherty	4965	5015
Lime & Chert	5015	5070
Cherty Lime	5070	5180
Lime	5180	5240
Chalky Lime & Chert	5240	5286
Cherty Lime & Chalk	5286	5322
Cherty Chalky Lime, Arb.	5322	5377
Arb Lime	5377	5442
Cherty Lime, Arb.	5442	5555
Lime	5555	5605
Cherty Lime	5605	5633
Granite Wash	5633	5679



RECEIVED
STATE CORPORATION COMMISSION
DEC 6 1971
CONSERVATION DIVISION
Wichita, Kansas

I certify that this is a true and correct copy of the above log to the best of my knowledge.