P-N

KERN COUNTY LAND CO. (PHILLIPS 1-P)
NW/NW sec 29-17N-25E Apache

County Apache

Area

Lease No.

Well Name KERN COUNTY LAND COMPANY (PHILLIPS 1-P) KCL 4

Location NW/NW Sec 29 Twp 17N Range 25E Footage 660 FWL - 660 FNL

Elev. 5630 Gr KB Spud Date 3-26-64 Completed Abandon 4-1-64 Total Depth 1305

Contractor

Drilled by Rotary

Cable Tool

Casing Size	Depth	Cement

Production Horizon

Initial Production

REMARKS

Elec Logs None

Applic. to Plug Plugging Record Completion Report

Sample Log

Sample Descript.

Sample Set

Core Analysis

DSTs

Water well accepted by

Bond Co. & No.

Bond Am't $ Cancelled Date Organization Report

Filing Receipt Dated Well Book Plat Book

Loc. Plat Dedication

API NO. 02-001-05026

Permit Number Date Issued

1-26

660' S/N ; 660' E/W

KCl #4 Miscellaneous (1-26)

Core: 1083.8 to 1305.5
recovered 100% in salt section

Casing: 8 5/8" surf to 47.55
4 1/2" " to 1083.8

Abandonment: Plugged 1305.5 to 1000 with cement
Plugged from 750 to 650 w/cement
" at surf. w/cement

Water: Static level at 207'

Low pressure gas at 800'

Hole started 3/25/64
complete 4/1/64

CORE LOG KCl #4 (1-26)

From	To	Thick.	Description
			Run #1 - Drilled 15.0' - Recovered 15.1'
1083.8	1086.15	2.35	SS-ST, RBr; intercalated bands and blebs of gypsum, blebs of GyGn (reduced) ST
1086.15	1086.18	0.03	Gypsum, fibrous
1086.18	1088.18	2.00	ST, RBr; intercalated bands and blebs of gypsum, blebs GyGn ST
1088.18	1088.22	0.04	Gypsum, fibrous
1088.22	1092.47	4.25	ST-SS, RBr; intercalated thin bands and blebs of gypsum, blebs GyGn ST
1092.47	1092.51	0.04	Gypsum, fibrous
1092.51	1098.91	6.40	ST-SS, RBr; intercalated thin bands and blebs of gypsum, blebs GyGn ST
			Run #2 - Drilled 15.0' - Recovered 14.92'
1098.80	1100.80	2.00	ST-SS, RBr; blebs gypsum - not as abundant as unit above
1100.80	1100.84	0.04	MS, GyGn
1100.84	1109.49	8.65	Anhydrite, top 1.5' faintly banded with clay styolites, films, seams and some blebs of GyGn MS; remainder spotted or mottled with blebs and films of GyGn MS or CS.
1109.49	1110.59	1.10	Anhydrite and RBr MS in alternating irregular bands; abundant and scattered blebs of GyGn CS.
1110.59	1111.39	0.80	Anhydrite, argillaceous; very finely bedded anhydrite and MS, RBr.
1111.39	1113.74	2.35	ST, RBr; blebs and stringers of gypsum, some scattered blebs of GyGn MS.

From	To	Thick.	Description
			Run #3 - 1113.8 - 1128.8 - Drilled 15.0' - Recovered 15.1' (picked up loss from Run #2)
1113.8	1128.8	15.0	ST, sandy, RBr; inclusions, blebs, stringers of gypsum
		0.3	of GyGn MS @ 1116.0'
1117.8	1118.2	.4	blebs and large nodules GyGn
1120.5	1120.9	.4	GyGn MS seam
1121.7	1128.8	7.1	Scattered blebs of anhydrite
			Contorted bedding @ 1124.4 and more anhydrite to 1128.8
			Run #4 - Drilled 14.0' - Recovered 13.86'
1128.8	1132.70	3.90	ST-SS, RBr; GyGn MS blebs - no gypsum or anhydrite
1132.70	1132.90	0.20	Anhydrite
1132.90	1134.15	1.25	ST, RBr; GyGn blebs of MS, thin stringer of anhydrite
1134.15	1136.20	2.05	Anhydrite, basal 0.3' contains seams and inclusions, RBr MS
1136.20	1137.70	1.50	Halite, Small scattered RBr MS inclusions, some coral colored salt
1137.70	1142.65	4.95	Halite - clear - some lt. gray anhydrite, or clay blebs and inclusions basal 1.8' some reddish color.
			Run #5 - Drilled 15.0' - Recovered 14.96'
1142.65	1146.10	3.45	Halite, clear. Occasional stringers and blebs gypsum.
1146.10	1153.20	7.10	Halite and RBr MS; Halite clear and crystalline. Mudstone occurs between Halite crystals. One thin (3/4") mudstone layer at 1148.7.
1153.20	1153.85	0.65	Halite, clear.
1153.85	1157.60	3.75	Halite and MS, RBr. Halite clear and crystalline. Mudstone occurs between Halite crystals and as thin beds.

From	To	Thick.	Description
			Run #6 - Drilled 15.0' - Recovered 14.6'
1157.8	1158.4	0.60	MS, RBr and Halite; Mudstone makes up ±75%. Halite clear
1158.4	1160.7	2.30	Anhydrite - banded
1160.7	1170.85	10.15	Anhydrite - mottled appearance; some occasional blebs gypsum.
1170.85	1171.50	0.65	Anhydrite - banded
1171.50	1172.30	0.80	MS, RBr
			Note: Short 0.4' core. This shortage was probably ground up at the start of the run. Some of the core at the beginning of the run was broken up.
			Run #7 - Drilled 14.6' - Recovered 14.6'
1172.8	1173.45	0.65	MS, RBr
1173.45	1176.55	3.10	Halite, some RBr MS between salt crystals. Halite clear to coral in color.
1176.55	1178.15	1.60	Halite (clear for most part with some coral); Some blebs and stringers anhydrite.
1178.15	1183.90	5.75	Halite, clear, RBr MS; Mudstone occurs as blebs and in between Halite crystals.
1183.90	1185.45	1.55	Halite
1185.45	1185.90	0.45	Halite, clear; RBr MS. Halite makes up ±75% core. Red mudstone occurs between salt crystals.
1185.90	1187.65	1.75	Halite and RBr MS; Halite makes up ±60% core. Halite clear to coral colored. Mudstone occurs between Halite crystals.

From	To	Thick.	Description
			Run #8 - Drilled 15.0' - Recovered 14.85'
1187.4	1188.00	0.60	Halite and RBr MS. Halite makes up ±70% core. Mudstone occurs between crystals of salt.
1188.00	1192.25	4.25	Halite and RBr MS. Halite makes up ±50% core. Mudstone occurs as blebs up to 1" in diameter and in between crystals of salt.
1192.25	1195.00	2.75	Halite and RBr MS. Halite makes up ±75% core. Mudstone occurs between crystals of Halite.
1195.00	1196.85	1.85	Anhydrite. Slightly mottled towards top, definitely mottled in center and banded near bottom. Contains some thin bands and blebs salt.
1196.85	1200.15	3.30	Halite - clear. Some narrow bands anhydrite.
1200.15	1200.30	0.15	Anhydrite - banded.
1200.30	1200.75	0.45	Halite - clear to coral.
1200.75	1202.25	1.50	Halite and RBr MS; Halite makes up ±85% core. Mudstone occurs mostly between Halite crystals with a few blebs.
			Run #9 - Drilled 14.6' - Recovered 14.5'
1202.4	1203.80	1.40	Halite and RBr MS; Halite makes up ±60% core. Mudstone occurs between salt crystals and as a few small blebs.
1203.80	1208.10	4.30	Halite - clear to light coral.
1208.10	1216.95	8.85	Halite and RBr MS. Halite makes up ±40% of core. Mudstone occurs between Halite crystals and as blebs up to 2" across.

From	To	Thick.	Description
			Run #10 - Drilled 14.7' - Recovered 15.0'
1217.0	1218.8	1.8	Halite and RBr MS. Halite makes up ±40% core. Mudstone occurs as blebs and between salt crystals.
1218.8	1220.6	1.8	Halite and RBr MS. Halite makes up ±60% core. Mudstone occurs as blebs and between salt crystals.
1220.6	1221.0	0.40	Halite - clear.
1221.00	1221.55	0.55	Halite and RBr MS. Halite makes up ±70% core. Mudstone occurs as blebs and between salt crystals.
1221.55	1222.0	0.45	Halite - Dense coral colored
1222.00	1223.00	1.00	Halite and RBr MS; Halite makes up ±80% core. Mudstone occurs between Halite crystals.
1223.00	1226.30	3.30	Anhydrite - banded. Some blebs and thin beds gypsum.
1226.30	1229.70	3.40	Anhydrite and Halite. Anhydrite makes up ±70% core.
1229.70	1231.85	2.15	Anhydrite - banded. Some bands with salt crystals.
1231.85	1231.95	0.10	Anhydrite and RBr MS in alternating bands
			Run #11 - Drilled 15.0' - Recovered 15.0'
1231.7	1231.85	0.15	MS, GyGn and Anhydrite - base of unit above
1231.85	1234.05	2.20	Halite, upper 0.7' cloudy with inclusions of RBr MS and Anhydrite
1234.05	1239.75	5.70	MS, RBr; Top 0.02' GyGn MS seam.
1239.75	1246.70	6.95	Halite; RBr MS inclusions; Halite clear and reddish mixed, sparse anhydrite inclusions. Halite content increases with depth except basal 0.8' RBr MS content increases.

From	To	Thick.	Description
			Run #12 - Drilled 15.0' - Recovered 14.98'
1246.7	1247.2	0.5	MS, RBr and salt intermixed
1247.2	1249.88	2.68	Halite, cloudy, some RBr MS inclusions
1249.88	1250.52	0.64	Halite, with 20% RBr MS inclusions
1250.52	1250.58	0.06	Anhydrite
1250.58	1257.08	6.50	MS, RBr with Halite inclusions. Halite content increases toward base.
1257.08	1257.98	0.90	Halite with RBr MS inclusions
1257.98	1258.25	0.27	Halite, clean, clear
1258.25	1260.90	2.65	Halite and RBr MS. Sylvite present in distinct crystals comprising 25% of interval.
1260.90	1261.30	0.40	MS, RBr, thin bedded, some slightly contorted bedding — thin band of reddish Halite in center.
1261.30	1261.68	0.38	MS RBr and Halite - intermixed.

From	To	Thick.	Description
			Run #13 - Drilled 15.0' - Recovered 14.7'
1261.7	1261.85	0.15	Halite with RBr MS blebs
1261.85	1262.37	0.52	MS, RBr; some blebs and xtls. of Halite.
1262.37	1263.47	1.10	Halite - cloudy interstitial RBr MS — MS in blebs @ top MS decreasing toward base
1263.47	1265.47	2.00	Halite; cloudy; Coral colored - color slightly different than usual RBr MS. Several thin Anhydrite seams less than 0.01' thick.
1265.47	1267.33	1.86	Halite, cloudy to clear; some thin bands and seams of anhydrite less than 0.01' thick.
1267.33	1267.74	0.41	Halite, clear; Small stringers and blebs of anhydrite
1267.74	1269.44	1.70	Halite, clear; Sparse small stringers and blebs of anhydrite(?)
1269.44	1269.68	0.24	Halite, clear with reddish cast; Scattered crystals of Sylvite
1269.68	1270.40	0.72	Halite, clear; some small stringers and blebs of anhydrite and one small stringer of RBr MS.
1270.40	1272.03	1.63	MS, RBr with salt blebs and crystals
1272.03	1274.78	2.75	Halite with blebs of RBr MS exp. near top; MS decreases toward base.
1274.78	1276.40	1.62	Halite, clear, white - some scattered crystals of Sylvite with red halo.

From	To	Thick.	Description
			Run #14 - Drilled 14.3' - Recovered 14.4'
1276.7	1277.44	0.74	Halite - discolored with RBr MS films. Some blebs RBr MS
1277.44	1277.49	0.05	Anhydrite
1277.49	1279.96	2.47	MS RBr; Halite admixed as blebs, inclusions and crystals
1279.96	1282.88	2.92	Halite, 65%; admixed RBr MS blebs and inclusions
1282.88	1286.26	3.38	Halite, 90% with admixed RBr MS — MS content decreases toward base.
1286.26	1288.92	2.66	Halite - minor amounts of RBr MS inclusions
1288.92	1291.00	2.08	Halite with fairly abundant inclusions and blebs of anhydrite and RBr MS — anhydrite content increases toward base.
			Run #15 - Drilled 14.5' - Recovered 15.1'
1291.00	1291.35	0.35	Halite; sparse inclusions of RBr MS and anhydrite.
1291.35	1292.38	1.03	Halite, small blebs and stringers of RBr MS and anhydrite
1292.38	1293.75	1.37	Halite, reddish, sparse small inclusions of anhydrite
1293.75	1293.86	0.11	Anhydrite
1293.86	1294.66	0.80	RBr MS, Salt inclusions and crystals toward base.
1294.66	1297.36	2.70	Halite, 50%; RBr MS as bands and intermixed.
1297.36	1298.02	0.66	MS, RBr, some small blebs of Halite and anhydrite
1298.02	1298.92	0.90	Halite 70%; inclusions of RBr MS, one thin seam of RBr MS
1298.92	1303.42	4.50	Halite, RBr MS blebs and inclusions less MS toward base.
1303.42	1306.12	2.70	Halite, some small blebs and inclusions of RBr MS and Anhydrite — becoming almost clear Halite at base.

KCL-4

(1-26)

KCL #4

MOISTURE, INSOLUBLE RESIDUE AND EQUIVALENT K_2O CONTENT FOR

PHILLIPS PETROLEUM COMPANY POTASH TEST HOLE #1, APACHE COUNTY, ARIZONA

From	To	Thickness feet	Equiv. K_2O As Rec'd. Per Cent	Moisture Per Cent	Equiv. K_2O Moist. Free Per Cent	Insoluble Residue %	Equiv. K_2O Moisture & Insoluble Free - %
1247.4	1248.0	0.6	0.17	0.08	0.17	0.67	0.17
1248.0	1249.0	1.0	0.07	0.04	0.07	0.25	0.07
1249.0	1250.0	1.0	0.05	0.04	0.05	0.04	0.05
1250.0	1250.55	0.55	0.14	0.21	0.14	3.01	0.14
1250.55	1251.0	0.45	1.29	2.20	1.32	30.44	1.90
1251.0	1252.0	1.0	1.75	3.09	1.80	32.83	2.68
1252.0	1253.0	1.0	2.05	4.24	2.14	41.38	3.65
1253.0	1254.0	1.0	2.80	3.88	2.91	41.59	4.98
1254.0	1255.0	1.0	1.47	2.61	1.51	29.28	2.13
1255.0	1255.7	0.7	2.60	1.73	2.65	22.10	3.40
1255.7	1256.5	0.8	5.24	1.71	5.33	18.06	6.50
1256.5	1257.0	0.5	2.89	2.56	2.96	23.73	3.88
1257.0	1257.5	0.5	1.34	0.89	1.35	7.75	1.46
1257.5	1258.0	0.5	1.84	0.83	1.86	6.73	1.99
1258.0	1258.5	0.5	2.47	1.61	2.51	12.31	2.86
1258.5	1259.0	0.5	7.68	2.05	7.84	19.28	9.71
1259.0	1260.0	1.0	18.07	0.80	18.22	5.76	19.33
1260.0	1261.0	1.0	12.65	0.78	12.75	6.25	13.60
1261.0	1262.0	1.0	1.92	6.24	2.05	40.42	3.44
1262.0	1263.0	1.0	0.83	1.35	0.84	10.93	0.94
1263.0	1263.5	0.5	0.70	0.31	0.70	3.11	0.72
1263.5	1264.0	0.5	0.75	0.16	0.75	0.80	0.76
1264.0	1264.5	0.5	1.4	0.13	1.40	0.99	1.41
1264.5	1265.0	0.5	2.5	0.10	2.50	3.67	2.60
1265.0	1266.0	1.0	4.9	0.67	4.93	3.75	5.09
1266.0	1267.0	1.0	6.45	2.07	6.59	2.71	6.77
1267.0	1268.0	1.0	2.55	1.45	2.59	12.09	2.95
1268.0	1269.0	1.0	2.35	3.11	2.42	0.28	2.43
1269.0	1270.0	1.0	9.15	6.04	9.70	0.16	9.76
1270.0	1271.0	1.0	2.0	2.95	2.06	0.08	2.06
1271.0	1272.0	1.0	3.0	4.56	3.14	8.56	3.43
1272.0	1273.0	1.0	0.9	1.43	0.91	2.28	0.93
1273.0	1274.0	1.0	1.0	0.71	1.01	1.61	1.03
1274.0	1275.0	1.0	1.2	0.30	1.22	1.33	1.24
1275.0	1276.0	1.0	0.8	0.22	0.80	0.22	0.80
1276.0	1277.0	1.0	12.15	0.14	12.17	2.58	12.49
1277.0	1278.0	1.0	3.1	1.62	3.15	11.87	3.57
1278.0	1279.0	1.0	8.65	3.81	8.98	29.87	12.81
1279.0	1280.0	1.0	5.8	4.08	6.04	24.14	7.97
1280.0	1281.0	1.0	1.1	2.52	1.13	19.60	1.40
1281.0	1282.0	1.0	1.2	2.62	1.23	24.66	1.63
1282.0	1283.0	1.0	1.75	2.29	1.79	25.42	2.40
1283.0	1284.0	1.0	1.10	0.84	1.12	10.92	1.26
1284.0	1285.0	1.0	0.55	1.11	0.56	10.23	0.62
1285.0	1286.0	1.0	0.20	0.49	0.20	5.69	0.21

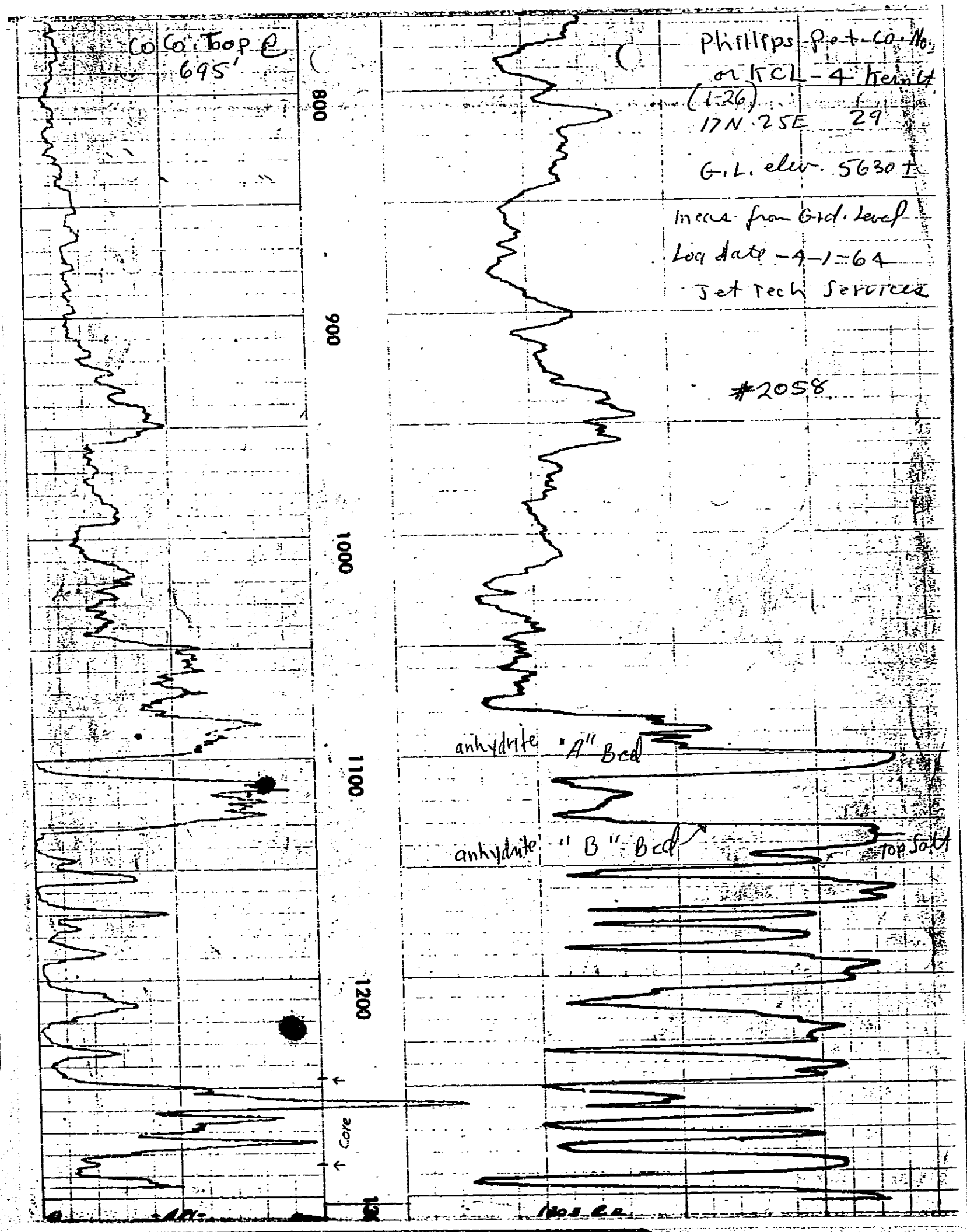
KCL#4

(1-26)

SEPARATION OF MINERALS BY HEAVY MEDIA AND IDENTIFICATION BY X-RAY DIFFRACTION ANALYSES FOR PHILLIPS PETROLEUM COMPANY POTASH TEST HOLE 1, APACHE COUNTY, ARIZONA

From	To	Equiv. K_2O - %	Spec. Grav. 2.05 %	Spec. Grav. 2.05 Minerals	Spec. Grav. 2.05-2.30 %	Spec. Grav. 2.05-2.30 Minerals	Spec. Grav. 2.30 %	Spec. Grav. 2.30 Minerals	Insoluble Residue %	Insoluble Residue Minerals
1255.7	1256.5	5.3	6.4	Sylvite* Halite*** (Anhydrite)	74.6	Halite (Sylvite)** (Anhydrite)	19.0	Quartz (Sylvite) (Halite) (Anhydrite)	18.1	Quartz Illite Chlorite (Limonite)
1258.5	1259.0	7.8	6.6	Sylvite Halite (Anhydrite)	67.3		26.1		19.3	Quartz Illite Chlorite (Limonite)
1259.0	1260.0	18.2	27.6	Sylvite (Halite) (Anhydrite) (Carnallite)	66.3	Halite (Sylvite)	4.1		5.8	Quartz Illite Chlorite (Limonite)
1260.0	1261.0	12.75	18.0	Sylvite (Halite) (Anhydrite) (Carnallite)	75.5		6.5	Halite (Sylvite) (Quartz) (Anhydrite)	6.2	
1266.0	1267.0	6.6	12.1	Sylvite Carnallite (Halite) (Anhydrite)	73.9		14.0	Anhydrite Halite (Sylvite) (Quartz)	2.7	
1269.0	1270.0	9.7	24.6	Sylvite Carnallite Halite (Anhydrite)	70.1	Halite (Sylvite)	5.3		0.2	
1276.0	1277.0	12.2	10.5	Sylvite Halite (Anhydrite)	81.8		7.7	Anhydrite Halite (Sylvite)	2.6	
1278.0	1279.0	9.0	7.5	Sylvite Halite (Anhydrite)	55.9	Halite (Sylvite)	36.6	Quartz (Sylvite) (Halite) (Anhydrite) (Carnallite)	29.9	

*Underlined entries indicate concentration exceeding 90%; e.g. Sylvite.
**Parenthetical entries indicate trace amounts; e.g. (Sylvite).
***All other entries, a few per cent; e.g. Halite.

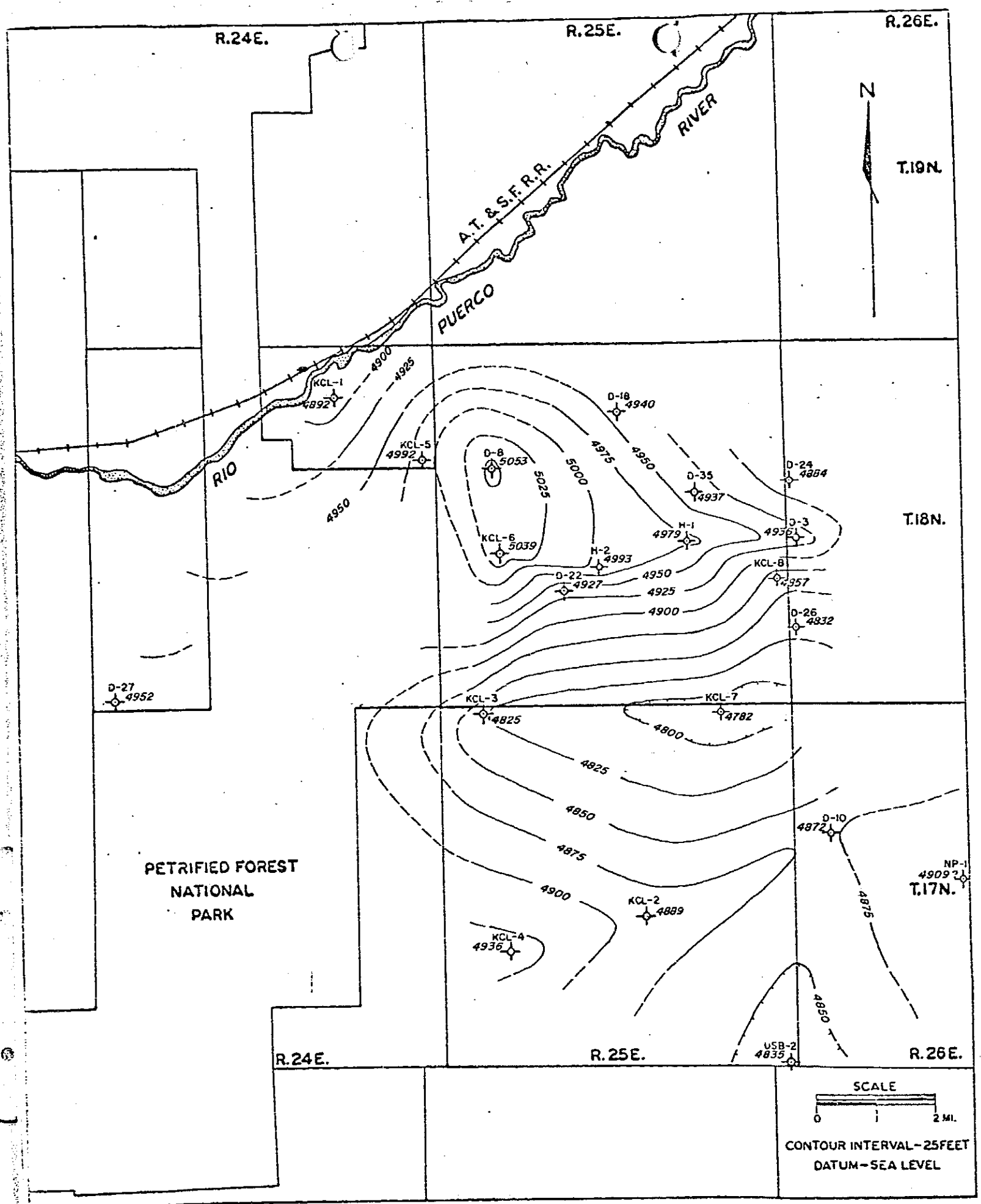

Co Co. Top @ 695'
800
900
1000
1100
1200
Core
Phillips Pet. Co. No.
on KCL-4 Hemck
(1-26)
17N 25E 29
G.L. elev. 5630 ±
meas. from Grd. level
Log date 4-1-64
Jet Tech Services
#2058
anhydrite "A" Bed
anhydrite "B" Bed
Top Salt

PHILLIPS PETROLEUM COMPANY

HOLE NO.	HOLE LOCATIONS				LAND		GROUND ELEV.	DATE STARTED	DATE COMPLETED	DEPTH OF HOLE	DEPTH TO COCONINO	THICKNESS OF COCONINO	DEPTH TO TOP 1st ANHYDRITE
	TWP.	RGE.		SECTION	SURFACE	MINERAL PERMIT							
1-P	17N O+G CC 1-26	25E	660' S. & 660' E. of NW cor.	NW NW 29	Private	Private	5630	3-25-64	4- 1-64	1305'	694'	316'	1099'
2-P	16N O+G CC 1-20	26E	660' S. & 600' W. of NE cor.	NE NE 20	Federal	Ar-032044	5640 (est)	4-15-64	4-25-64	1449'	833'	357'	1041'
3-P	15N O+G CC 1-12	29E	550' ~~N.~~ S. & 2100 W. of NE cor. (Estimated)	NW NE 22	State	FP-4986	5755 (est)	3-25-64	9-30-64	1024'	403'	318'	[illegible]

Orig. of this sheet filed in 1-12

RECEIVED STATE O & CONS. COMM.



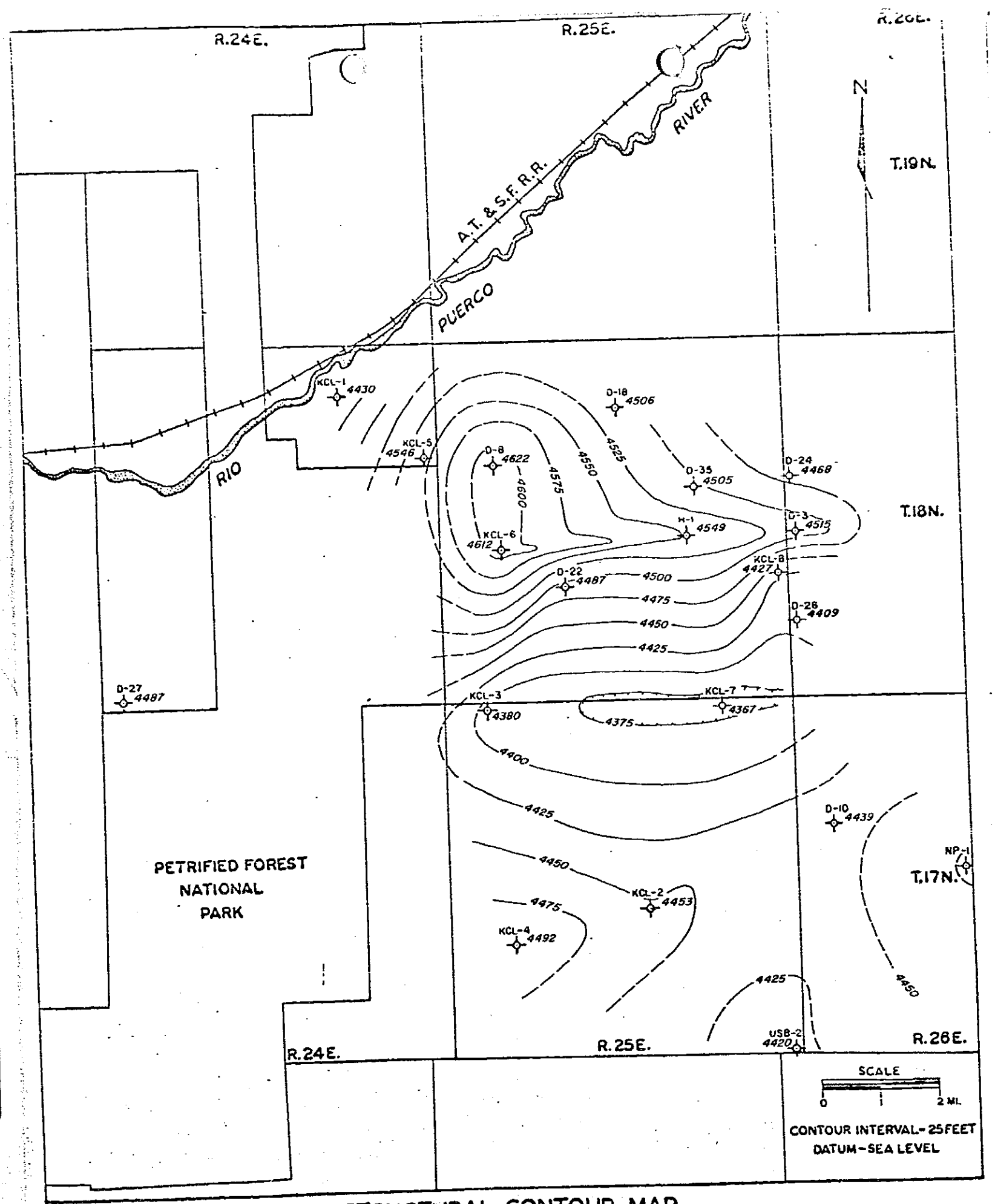
STRUCTURAL CONTOUR MAP

TOP OF COCONINO SANDSTONE

AUGUST 1, 1964

KERN COUNTY LAND COMPANY

APACHE POTASH PROJECT

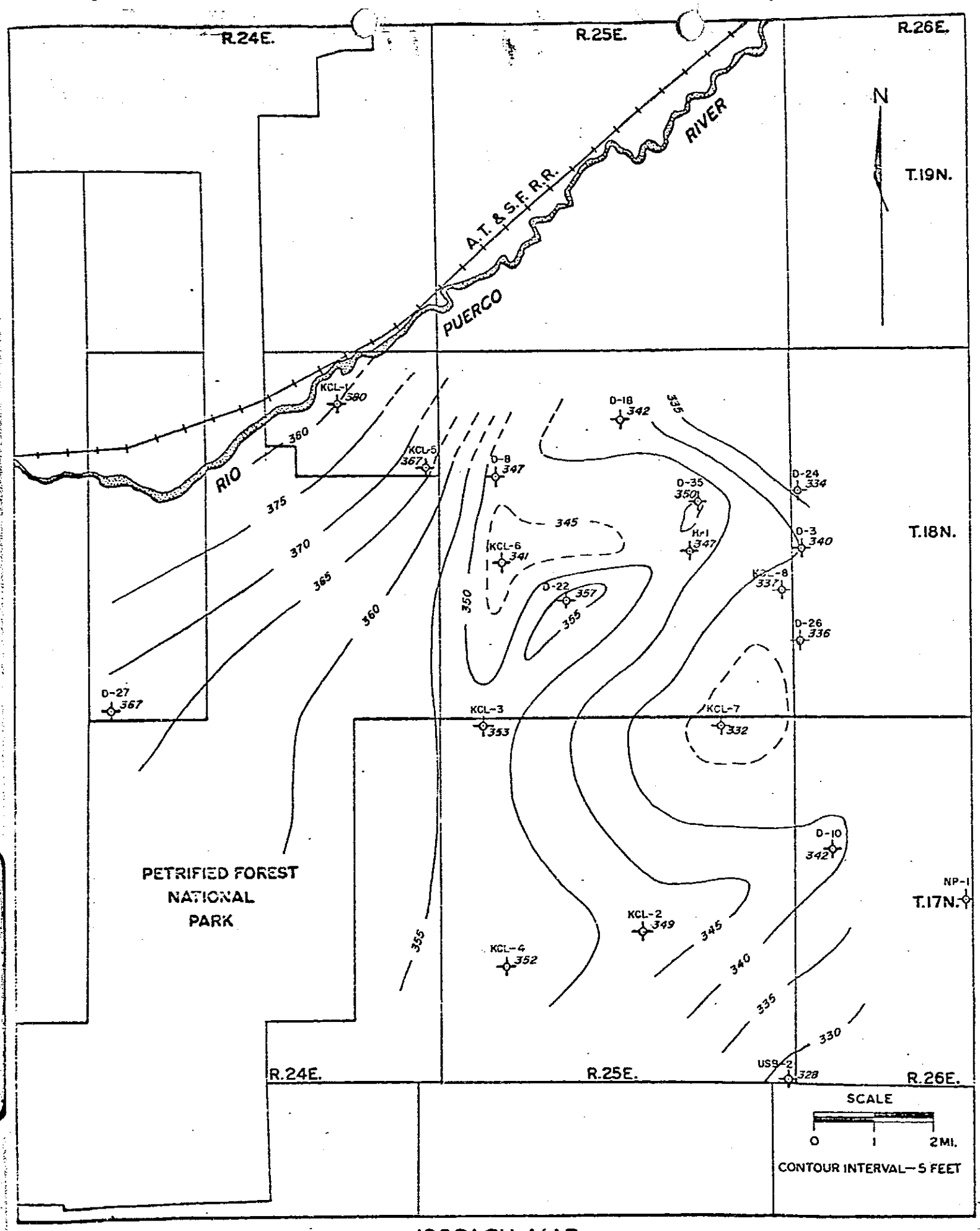


STRUCTURAL CONTOUR MAP

TOP OF ANHYDRITE "B" BED IN SUPAI FORMATION

AUGUST 5, 1964
BY: WAYNE WALLACE

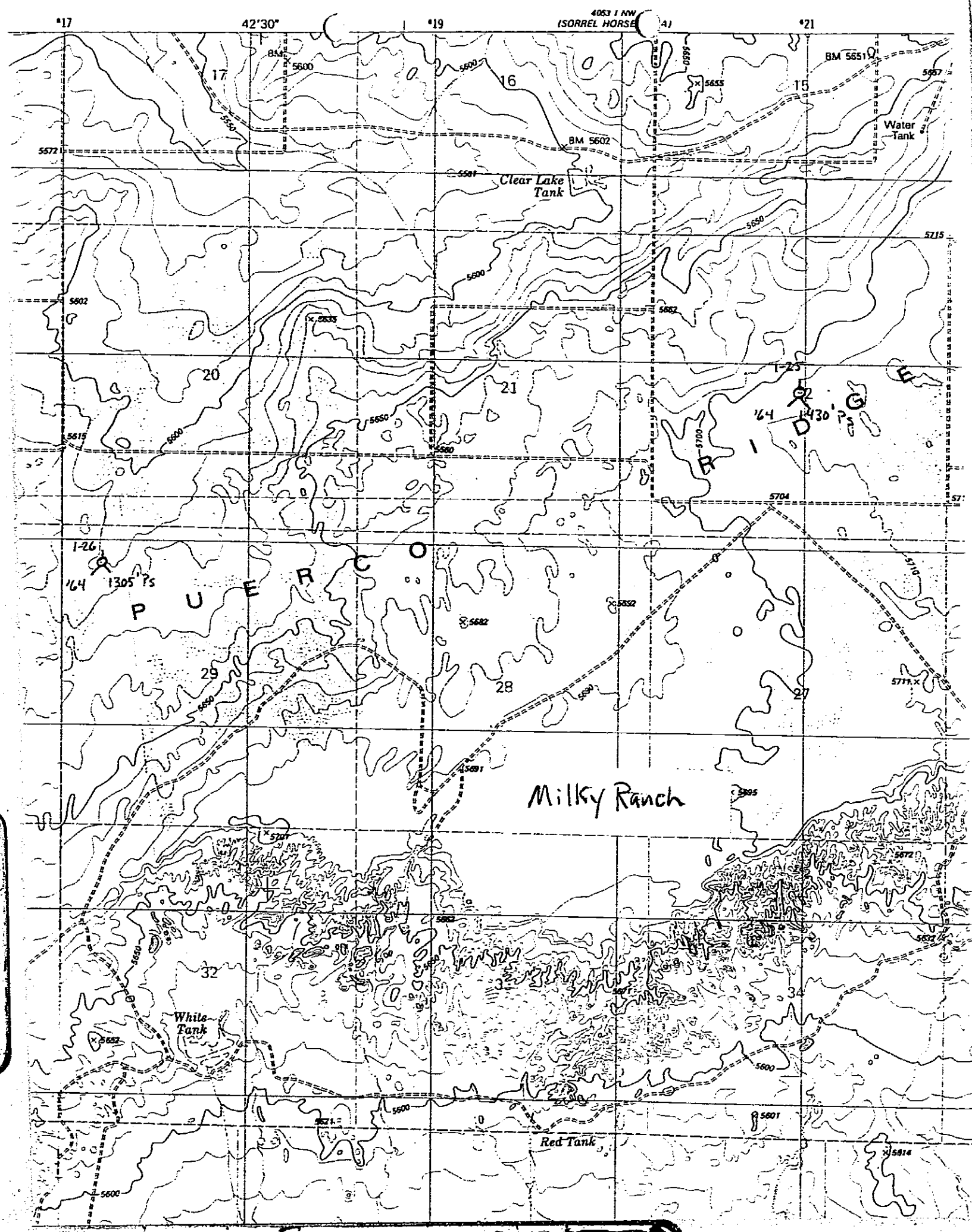
KERN COUNTY LAND COMPANY
APACHE POTASH PROJECT
APACHE COUNTY, ARIZONA



ISOPACH MAP

FROM TOP OF COCONINO SANDSTONE TO TOP OF SUPAI FORMATION

KERN COUNTY LAND COMPANY


42'30"
(SORREL HORSE
BM 5551
Water Tank
BM 5602
Clear Lake Tank
1-25
'64
1430' PS
RIDGE
1-26
'64
1305' PS
PUERCO
Milky Ranch
White Tank
Red Tank

KERN COUNTY LAND COMPANY - POTASH TEST HOLES - APACHE COUNTY, ARIZONA

Drill Hole Number	DRILL HOLE LOCATION				Mineral Land Status	Ground Elevation	DEPTH TO TOP OF					Total Depth	Date Started	Date Completed
	Township	Range	Section	Location			Coconino	Supai	Anhydrite "A" Bed	Anhydrite "B" Bed	Halite			
KCL No. 1 log (O&GCC 1-35)	18 N	24 E	C-S^2,SW 2	660'FSL, 1320'FWL	State P.P.#1596	5342'	450'	830'	None	912'	969.5'	1134'	2-17-64	2-25-64
1-25 KCL No. 2 (U.S.B.-Navajo #2) (O&GCC#1-25)	17 N	25 E	C - 22	2640'FSL, 2626'FEL	State P.P. -	5710'±	821'	1170'	? 1220'	? 1257'	? 1245'	1430'	3- 1-64	3- 8-64
KCL No. 3 log (O&GCC #1-24)	17 N	25 E	C-N^2,NE 6	660'FNL, 1320'FEL	State P.P.#1128	5600'±	775'	1128'	1184'	1220	1234.2'	1385'	3-14-64	3-22-64
KCL No. 4 (Phillips 1-P) (O&GCC#1-26)	17 N	25 E	C-NW,NW 29	660'FWL, 660'FNL	Private GREER	5630'±	694'	1046'	1100	1133	1136.4'	1305'	3-26-64	4- 1-64
KCL No. 5 log (O&GCC#1-36)	18 N	24 E	C-S^2,SE 12	660'FSL, 1320'FEL	State P.P.#1597	5367'	375'	742'	None	821'	846.6'	1012'	4- 5-64	4-11-64
KCL No. 6 (Duval Permit) log (O&GCC No. 1-43)	18 N	25 E	W^2,W^2 20	2640'FNL, 141'FWL	State P.P. -	5418'	379'	720'	None	806'	835.8'	1021'	4-15-64	4-20-64
KCL No. 7 log (O&GCC#1-23)	17 N	25 E	C-NE,NE 2	660'FNL, 660'FEL	State P.P.#1126	5800'	1018'	1350'	1399'	1433'	1445'	1600'	6- 6-64	6-18-64
KCL No. 8 log (O&GCC#1-44)	18 N	25 E	SE,SE 24	419'FSL, 882'FEL	State P.P.#1169	5710'	853'	1190'	1248'	1283'	1302'	1421'	6-21-64	7- 1-64

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Completed By: WAYNE K. WALLACE

November 4, 1965

KERN COUNTY LAND COMPANY
2624 North First Avenue
Tucson, Arizona

November 4, 1965

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CONS. COMM.

Mr. John Bannister
Executive Secretary
Oil and Gas Conservation Commission
State of Arizona
Room 202
1624 West Adams
Phoenix, Arizona 85007

Dear Mr. Bannister:

Enclosed are the following data pertaining to our 1964 Potash Project in Apache County, Arizona:

Item	Quantity	Description
1	2	Gamma Ray - Neutron Log KCL No. 1
2	2	" " " " KCL No. 3
3	2	" " " " KCL No. 5
4	2	" " " " KCL No. 6
5	2	" " " " KCL No. 7
6	2	" " " " KCL No. 8
7	2	Structural Contour Map - Top of Coconino Sandstone
8	2	Isopach Map - Coconino Sandstone
9	2	Structural Contour Map - Top of Anhydrite "B" Bed in Supai Formation
10	2	Itemized List of Drill Holes with Locations, Elevations, Formational Tops and Completion Dates

We have not furnished Gamma Ray - Neutron Logs on our Hole Designation of KCL No. 2 and KCL No. 4. Kern County Land Company drilled KCL No. 2 for the account of U.S. Borax. The U.S. Borax Designation for this Hole is Navajo #2. All detailed geologic and Gamma Ray - Neutron Logs are in the possession of U.S. Borax. The Phillips Petroleum Company drilled KCL No. 4 for the account of Kern County Land Company. The Phillips Designation for KCL No. 4 is Hole No. 1-P.

1-26

To: Mr. John Bannister
Oil and Conservation Commission
State of Arizona

November 4, 1965

Page 2

The original Gamma Ray - Neutron Log for this Hole is in the custody of Phillips Petroleum Company. Kern County Land Company drilled KCL No. 6 for the account of the Duval Corporation on one of Duval's state prospecting permits.

You will note that I have designated an Anhydrite "A" and "B" bed. In my opinion the "B" bed can be correlated throughout most of the Supai Salt Basin. The Unit that I have designated the Anhydrite "A" bed is situated stratigraphically above the "B" bed; however, it occurs only locally and is not as consistent or widespread as the "B" bed. Formational tops designated with a question mark have been reported to me by third parties; however, I have not actually seen the core or logs and cannot guarantee their accuracy.

I wish to take this opportunity to thank personnel of the Arizona State Land Department and the Oil and Gas Conservation Commission for the splendid service and cooperation extended to The Kern County Land Company during our recent potash exploration program.

Very truly yours,

KERN COUNTY LAND COMPANY

Wayne K. Wallace

Wayne K. Wallace
Chief Mining Engineer

cc: Mr. W. T. Griswold

Encl. - 20

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