

45F
File

Type Test		4 POINT ☒ Initial ☐ Annual ☐ Special		RECEIVED BY 1980 FWL	
Company		MCKAY OIL COMPANY		Connection TO AIR	
Pool		Formation		Unit	
Completion Date		Total Depth		Plug Back	
7-9-84		4800.		4604.	
Casing Size		Well		Perforations	
4.500		10.5		From 4268. To 4470.	
Tubing Size		Well		Perforations	
2.375		4.7		From 0 To 0	
Type Well - Single - Blindhead - G.C. or G.O. Multiple				Packer Set At	
SINGLE				0	
Producing thru		Reservoir Temp. °F		Known Annual Temp. °F	
TUBING		115. 4369.		60.0	
L		H		Cg	
4369.		4369.		0.639	
% CO ₂		% N ₂		% H ₂ S	
0.02		4.72		0.	
Provd		Motor Run		Taps	
2.0		0.		FLANGE	
FLOW DATA					
NO.	Provd Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w
1.	2.00 X 0.063			850.	0.
2.	2.00 X 0.094			827.	0.
3.	2.00 X 0.125			788.	0.
4.	2.00 X 0.188			700.	0.
TUBING DATA					
	Provd. p.s.i.g.	Temp. °F	Provd. p.s.i.g.	Temp. °F	Provd. p.s.i.g.
	866.	72.	910.	12/64	1.0
	852.	115.	900.	12/64	1.0
	827.	115.	900.	12/64	1.0
	788.	115.	850.	12/64	1.0
	660.	115.	770.	12/64	1.0
RATE OF FLOW CALCULATIONS					
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g
1	0.06	0.	863.2	0.9723	1.2510
2	0.14	0.	840.2	0.9706	1.2510
3	0.26	0.	801.2	0.9706	1.2510
4	0.61	0.	713.2	0.9723	1.2510
5					
NO.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio
1	1.30	550.	1.54	0.886	0.
2	1.27	552.	1.54	0.890	0.
3	1.21	552.	1.54	0.895	0.639
4	1.08	550.	1.54	0.904	0.639
5					
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. Specific Gravity Separator Gas _____ Specific Gravity Flowing Fluid _____ Critical Pressure _____ P.S.I.A. Critical Temperature _____ °F					
(1) $\frac{P_c^2}{P_1^2 - P_w^2} = 2.4160$ (2) $\left[\frac{P_c^2}{P_1^2 - P_w^2} \right]^n = 2.1981$ AOF = $Q \left[\frac{P_c^2}{P_1^2 - P_w^2} \right]^n = 1217.$					
Absolute Open Flow _____ Mcd @ 15.025 Angle of Slope @ _____ Slope, n 0.893					
Remarks:					
Approved By Commission		Conducted By:		Calculated By:	
RICHARD TOWNLEY		BENNETT & CATHEY		Checked By:	

Casper, WY 82601

Date Sampled 07/09/84

Case	Mckay Winston Sta#1	Producer	Mckay
Location	Pecos Slope	County	Chaves State New Mexico
Purpose		Sampled By	B & C Wrln.
Sampling Temp.	90 °F	Atmos Temp	90 °F
Volume/day	350 MCF/Day	Formation	ABO
Pressure on Bomb	700	PSIG, Line Pressure	713.2 PSTA PSIG

Gas Component	Mol. %	Liq. %	GPM Per MCF	Analysis	Press. Base: 14.73
Carbon Dioxide CO ₂	.016			BTU Dry	1066
Oxygen O ₂	.067			BTU Wet	1045
Nitrogen N ₂	4.722			Calc. Specific Gravity	.639
Hydrogen Sulfide H ₂ S					
Propane C ₃	87.320		14.800	@ Std. Press. 14.696	
Isobutane C ₄	4.725		1.264	BTU Dry	1064
Normal Butane C ₄	1.757		.484	BTU Wet	1062
Isopentane C ₅	.285		.093		
Normal Pentane C ₅	.576		.182	Calc. Vap. Press. #/Sq.In.	
				Reid Vap. Press. #/Sq In.	
Isopentane C ₅	.182		.067	Z Factor	.9977
Normal Pentane C ₅	.193		.070	N Value	1.3001
Hexanes plus	.157		.072	Ave Mol Wt	18.4837
Hexanes C ₆				Ave Cu Ft/Gal	
Heptanes					
Heptanes Plus C ₇ +					
				Run by	Joe H. Kroum
				Calculated By	Jeffrey A. Propp
Total	100.000		17.032		
Propane + G.P.M.			.209		
Isobutane + GPM			.968	Ethane + GPM	2.231
Normal Gasoline			.778		

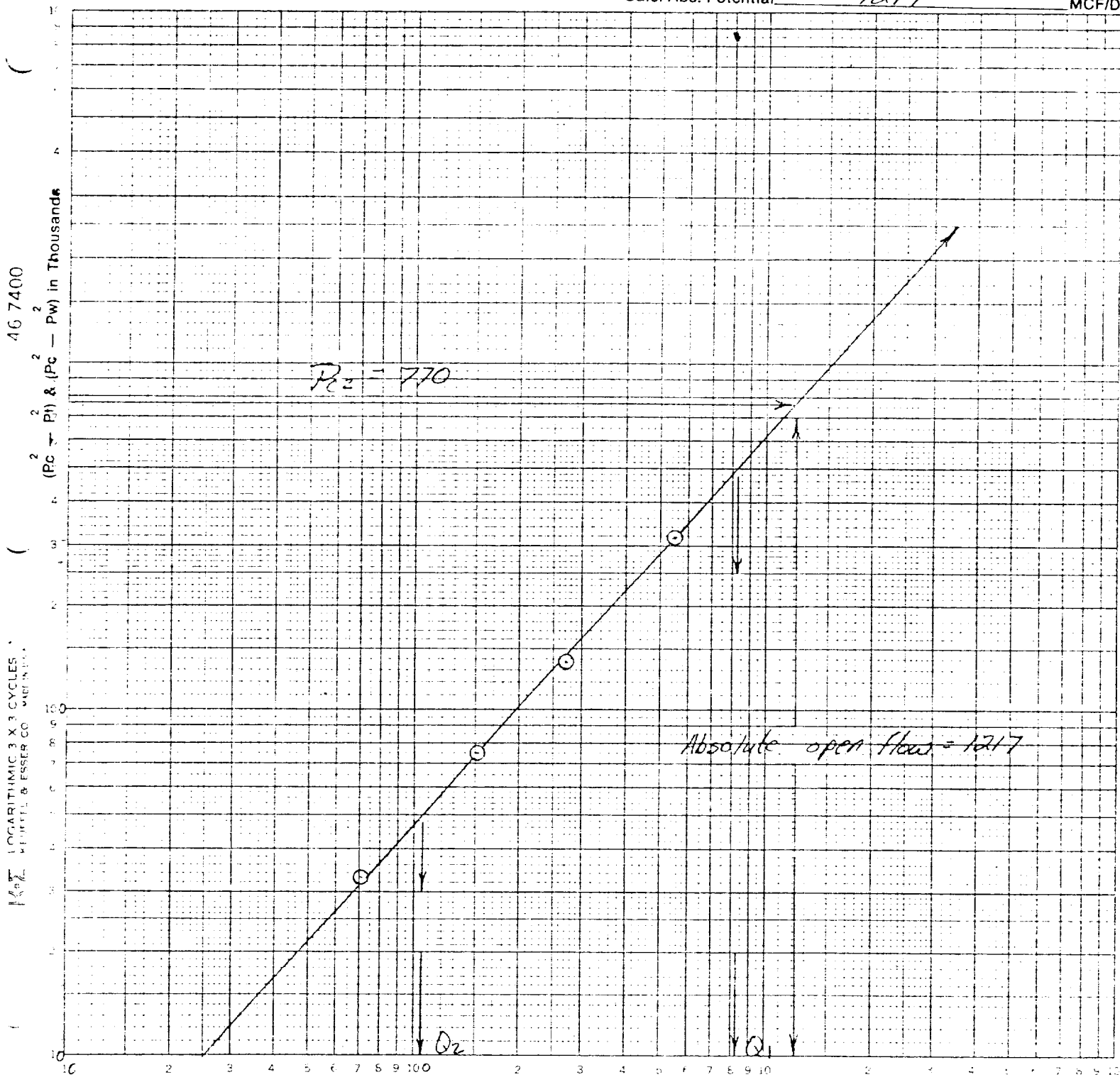
Remarks: BTU Wet @ 14.73 from GPA Reference Bulletin 191-82 Heating Value Conversion Table, Factor: .9849

tribution:

BACK PRESSURE CURVE

Operator McRay Lease McRay W. Lister Well No. 1
 County Clay Field _____ Location 3 85 26 E
 Date of Test 7-9-84 Slope "n" .893 Angle of Slope 46.2

Calc. Abs. Potential 1217 MCF/D



$$\frac{\Delta P_1^2}{\Delta P_2^2} \frac{P_c^2 - P_w^2}{P_c^2 - P_w^2} = \frac{500}{50}$$

$$Q_1 = 836$$

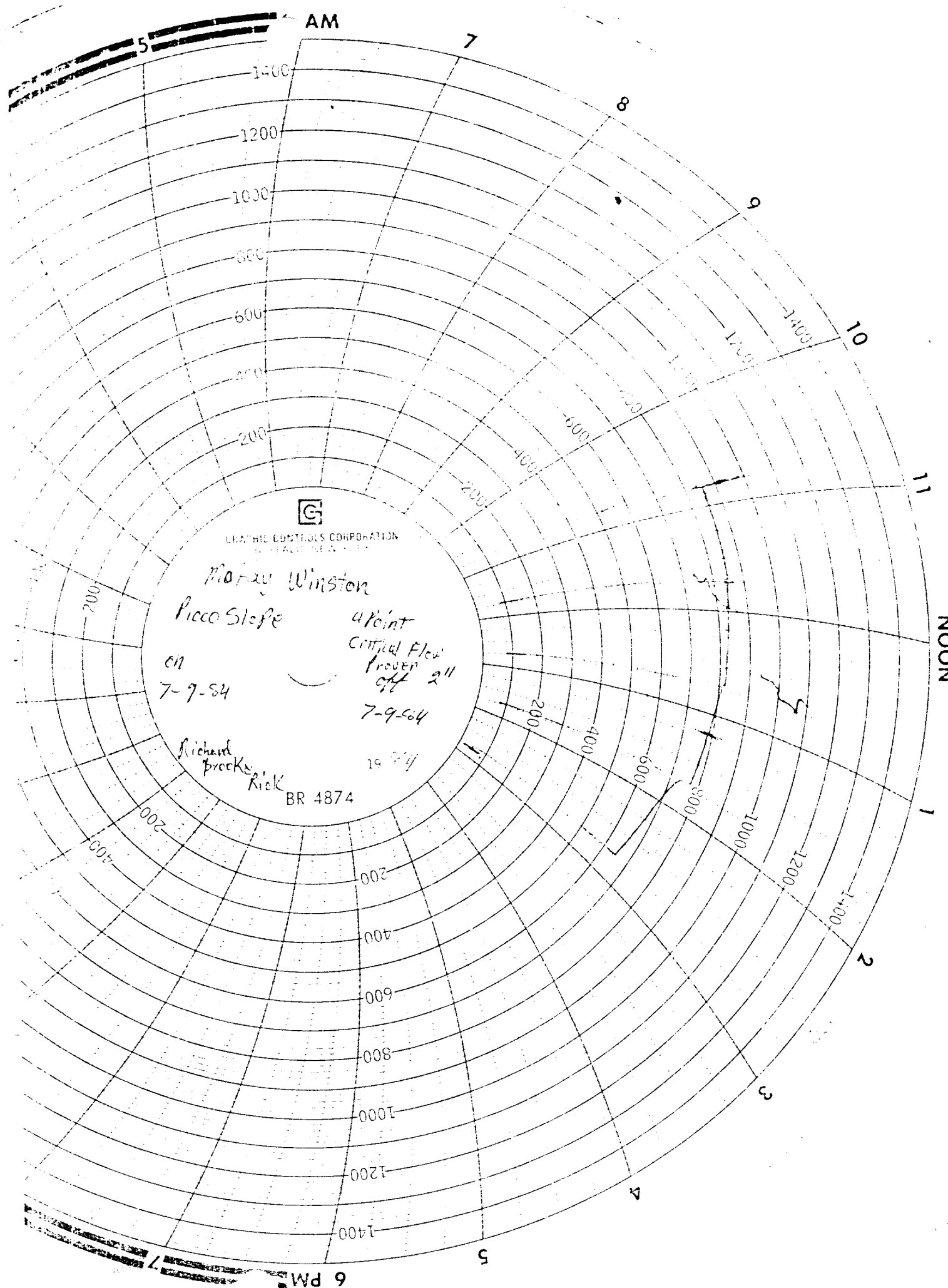
$$Q_2 = 107$$

Q in MCF/Day

$$\text{LOG } Q_1 = 2.9222$$

$$\text{LOG } Q_2 = 2.0294$$

$$n = 0.8928 = .893$$



AM

NOON

6 PM

BR 4874

GRAPHIC CONTROLS CORPORATION
NEW HAVEN, CT 06510



Moray Winston
Picco Slope
4 Point
Critical Flow
Proven
off 2"
7-9-54

on
7-9-54

Richard
Brooke
Rick

19 7/11

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	☒
FILE	☒
U.S.G.S.	☒
LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease	
State ☐	Fee ☒
5. State Oil & Gas Lease No.	
7. Unit Agreement Name	
8. Farm or Lease Name	
McKay-Winston	
9. Well No.	
#1	
10. Field and Pool, or Wildcat	
Wildcat-Abo	
12. County	
Chaves	
19. Elev. Casinghead	
3766 GR	
23. Intervals Drilled By	
Rotary Tools	
Cable Tools	
25. Was Directional Survey Made	
Yes ☒ No ☐	

1. TYPE OF WELL	OIL WELL ☐	GAS WELL ☒	DRY ☐	OTHER ☐
2. TYPE OF COMPLETION	NEW WELL ☒	WORK OVER ☐	DEEPEN ☐	PLUG BACK ☐
Name of Operator				

McKay Oil Corporation

Address of Operator

P. O. Box 2014, Roswell, NM 88202-2014

Location of Well

C LOCATED 660 FEET FROM THE North LINE AND 1980 FEET FROM

West LINE OF SEC. 3 TWP. 8-S RGE. 26-E NMPM

5. Date Spudded	15. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Casinghead
4-3-84	4-12-84	7-9-84	3766 GR	
6. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools
4800'	4604'			Cable Tools
4. Producing Interval(s), of this completion - Top, Bottom, Name				25. Was Directional Survey Made
4268-4281' & 4464-4470' Abo				Yes ☒ No ☐

6. Type Electric and Other Logs Run	Csg Collar & Perf Record, Computer Processed, Comp. Neutron-Litho Density, Dual Laterolog Micro-SFL, Cmt Bond.	27. Was Well Cored	No
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8. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	32#	844'	12 1/2"	350 sx Lite & 100 sx CL	"C" - Circ
4-1/2"	10.5#	4656'	7-7/8"	250 sx 50/50 POZ	

9. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-7/8"	4250'	

1. Perforation Record (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
4268-4281' (13 0.38" holes)		DEPTH INTERVAL	
4464-4470' (6 0.38" holes)		AMOUNT AND KIND MATERIAL USED	
		4268-4281' 2000 gal HCL, 20000 gal/30'	
		X-linked gel, 44000# sd	
		4464-4470' 750 gal 7 1/2% HCL, 10000 gal	
		X-linked gel, 104000# sd	

3. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
-----		Flowing				SI WOPL	
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
7-9-84	4	12/64			203		
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
700-850				1217			

4. Disposition of Gas (Sold, used for fuel, vented, etc.)	Test Witnessed By
SI WOPL	

5. List of Attachments
C-122 & logs as listed above (2 copies)

6. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Loraine R. Smith TITLE Production Analyst DATE 7-13-84

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

Southeastern New Mexico

T. Anhy _____	T. Canyon _____
T. Salt _____	T. Strawn _____
B. Salt _____	T. Atoka _____
T. Yates _____	T. Miss _____
T. 7 Rivers _____	T. Devonian _____
T. Queen _____	T. Silurian _____
T. Grayburg _____	T. Montoya _____
T. San Andres _____ 804'	T. Simpson _____
T. Glorieta _____ 1885'	T. McKee _____
T. Paddock _____	T. Ellenburger _____
T. Blinebry _____	T. Gr. Wash _____
T. Tubb _____ 3365'	T. Granite _____
T. Drinkard _____	T. Delaware Sand _____
T. Abo _____ 4090'	T. Bone Springs _____
T. Wolfcamp _____	T. _____
T. Penn. _____	T. _____
T. Cisco (Bough C) _____	T. _____

Northwestern New Mexico

T. Ojo Alamo _____	T. Penn. "B" _____
T. Kirtland-Fruitland _____	T. Penn. "C" _____
T. Pictured Cliffs _____	T. Penn. "D" _____
T. Cliff House _____	T. Leadville _____
T. Menefee _____	T. Madison _____
T. Point Lookout _____	T. Elbert _____
T. Mancos _____	T. McCracken _____
T. Gallup _____	T. Ignacio Qtzte _____
Base Greenhorn _____	T. Granite _____
T. Dakota _____	T. _____
T. Morrison _____	T. _____
T. Todilto _____	T. _____
T. Entrada _____	T. _____
T. Wingate _____	T. _____
T. Chinle _____	T. _____
T. Permian _____	T. _____
T. Penn. "A" _____	T. _____

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

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from to feet

No. 2, from to feet

No. 3, from to feet

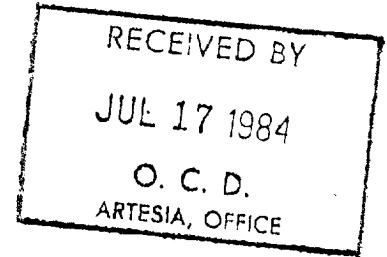
No. 4, from to feet

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation

HORIZON DRILLING &
EXPLORATION CORPORATION

P.O. Box 2487
Roswell, New Mexico 88201
623-9537

May 2, 1984



McKay Oil Corporation
P.O. Box 2014
Roswell, New Mexico 88201

McKay-Winston #1
Section 3, T8S, R26E
Chaves County, New Mexico

Spudded 4/3/84

DEVIATION SURVEY:

576' - 1-1/2'
1072' - 1-1/4'
1650' - 1'
2177' - 1-1/2°
2675' - 1-1/4°
3203' - 1-1/4°
3638' - 1-1/4'
4162' - 1-1/4°
4659' - 1-1/4°
4800' - 1-1/4'

TD - 4800'

Released 4/15/84

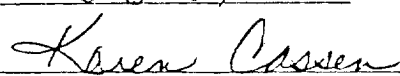
Sincerely,


J.C. Johnson
President

STATE OF NEW MEXICO)
COUNTY OF CHAVES)

The foregoing instrument was
acknowledged before me this
14th day of May,
1984 by the person known to me
to be J.C. Johnson.

My Commission Expires:

3-31-84

Notary Public