

Schlumberger

COMPENSATED NEUTRON-
FORMATION DENSITY

COMPANY <u>Tom L. Ingram</u>		COUNTY <u>Chaves</u> STATE <u>N.M.</u>	
JACK AHLEN <u>White Ranch</u>		FIELD <u>NEW MEXICO</u> 88201	
53 WHEATLEY BLDG.		ROSWELL	
AFI SERIAL NO. <u>33</u>		TWP. <u>11S</u> RANGE <u>29E</u>	
LOCATION <u>860 P.N.O.R.</u>		Other Services:	
Permanent Datum: <u>G.L.</u> ; Elev.: <u>K.B. 3777</u>		Log Measured From <u>K.B.</u> 11. Ft. Above Perm. Datum	
Drilling Measured From <u>K.B.</u>		Elev.: <u>D.F. 3768</u>	
File	<u>5-3-77</u>		
Run No.	<u>ONE</u>		
pH Driller	<u>8.800</u>		
pH Logger	<u>8.814</u>		
n Log Interval	<u>8.511</u>		
p Log Interval	<u>8.511</u>		
Using Driller	<u>8.511</u>		
Using Logger	<u>8.511</u>		
Size	<u>7 1/8</u>		
po Fluid in Hole	<u>5.911</u>		
Dens.	<u>1.00</u>		
Visc	<u>3.50</u>		
Fluid Loss	<u>7.5</u>		
ml	<u>8.0 ml</u>		
Source of Sample	<u>Circ.</u>		
Run : Meas Temp	<u>a</u>	<u>a</u>	<u>a</u>
Run : Meas Temp	<u>a</u>	<u>a</u>	<u>a</u>
Run : Meas Temp	<u>a</u>	<u>a</u>	<u>a</u>
Source Rmf Rmc			
Run : BHT	<u>.093</u>	<u>a</u>	<u>a</u>
Circulation Stopped	<u>3</u>	<u>0900</u>	
Logger on Bottom	<u>3</u>	<u>13.11</u>	
Max Rec Temp.		<u>F</u>	<u>F</u>
quip Location	<u>7681 H0665</u>		
Recorded By	<u>S. J. J. J.</u>		
Witnessed By Mr.	<u>A. J. J.</u>		

8500

TOM L. INGRAM
WHITE RANCH NO. 4
WILDCAT
LEA COUNTY, NEW MEXICO

DATE: 4-25-77
FORMATION: MIS-SIPPIAN
DRUG. FLUID: WATER BASE MUD
LOCATION: 600 FN&EL SEC 25 T11S R29E
33

FILE NO: 3102-10274
ENGINEER: NEFF
ELEVATION: 3790 GL

* INDICATES PLUG PERM

S INDICATES PRESERVED SAMPLE

SMP. NO.	DEPTH	PERM. TO AIR MD. MAXIMUM 90 DEG	VERT.	POROSITY GEX. FLD.	FLUID SATS. OIL WTR.	GR. DEN.	DESCRIPTION
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WHOLE CORE ANALYSIS

1	8494.0-95.4	<0.1	<0.1	5.2	0.0	34.3	LM, STY
2	8495.4-96.9	<0.1	<0.1	3.1	0.0	15.0	LM, STY
3	8496.9-98.2	<0.1	<0.1	3.0	0.0	35.3	LM
4	8498.2-99.5	<0.1	<0.1	5.1	0.0	38.2	LM, STY
5	8499.5-01.3	0.3	<0.1	6.6	3.2	44.8	LM, FRAC
6	8501.3-03.0	<0.1	<0.1	6.1	2.8	40.2	LM
7	8503.0-04.4	<0.1	<0.1	4.5	3.1	32.3	LM
8	8504.4-05.4	<0.1	<0.1	3.0	0.0	59.5	LM, STY
9	8505.4-06.7	<0.1	<0.1	3.5	4.2	48.3	LM, STY
10	8506.7-08.0	<0.1	<0.1	6.2	0.0	40.6	LM, STY
11	8508.0-09.0	<0.1	<0.1	6.9	2.3	39.4	LM, STY
12	8509.0-10.8	0.3	0.2	8.8	5.5	34.5	LM
13	8510.8-12.0	0.4	0.3	12.7	7.6	51.2	LM
14	8512.0-13.2	0.1	0.1	10.1	5.0	39.5	LM
15	8513.2-14.6	0.4	0.3	9.6	4.6	44.2	LM, SL/FRAC
16	8514.6-16.1	0.1	0.1	8.6	11.4	34.8	LM
17	8516.1-17.6	0.2	0.1	9.3	10.1	34.5	LM
18	8517.6-19.0	0.3	0.2	10.4	12.3	34.9	LM, SL/FRAC
19	8519.0-20.1	0.3	0.1	9.7	9.3	34.9	LM
20	8520.1-21.6	0.2	0.1	9.7	10.6	35.6	LM
21	8521.6-23.0	0.1	0.1	9.4	7.8	38.8	LM
22	8523.0-24.1	0.3	0.3	9.1	0.0	47.9	LM
23	8524.1-25.6	0.1	<0.1	8.0	4.4	41.3	LM, SL/FRAC
24	8525.6-26.6	<0.1	<0.1	5.1	0.0	23.7	LM
25	8526.6-28.1	<0.1	<0.1	4.7	0.0	27.4	LM
26	8528.1-29.4	<0.1	<0.1	6.2	2.3	53.6	LM, VERTFRAC
27	8529.4-30.4	0.2	0.1	7.7	2.7	46.2	LM, VERTFRAC, STY
28	8530.4-31.5	0.4	0.3	9.4	6.5	42.5	LM, CHTY, VERTFRAC
29	8531.5-32.8	<0.1	<0.1	4.7	6.7	51.3	LM, CHTY
30	8532.8-34.0	<0.1	<0.1	5.0	3.6	53.6	LM, CHTY
31	8534.0-35.2	<0.1	<0.1	1.0	0.0	73.9	LM, SHY, STY
32	8535.2-36.5	<0.1	<0.1	0.8	0.0	70.0	LM, SHY, STY
33	8536.5-37.5	<0.1	<0.1	0.3	0.0	87.5	LM, SHY, CHTY, STY
34	8537.5-39.0	<0.1	<0.1	0.4	0.0	81.8	LM, SHY, STY

8539.0-73.0

LM, SHY

C. W. TRAINER
BEFORE EXAMINER STOGNER
NMOC CASE NO. 10617
DATE: 12/17/92
EXHIBIT NO. 8

CORE LABORATORIES, INC.



Petroleum Reservoir Engineering

EXHIBIT NO. 1
DATE: 12/17/92
NMCD CASE NO. 10617
BEFORE EXAMINER STOGNER
C. W. TRAINER

COMPANY TOM L. INGRAM FIELD WILDCAT FILE 3102-10279
WELL WHITE RANCH NO. 4 COUNTY LEA COUNTY DATE 4-27-77
LOCATION 660 FM 211 SEC 23 T11S R29E STATE NEW MEXICO ELEV. 3000 GL

CORE-GAMMA CORRELATION

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

VERTICAL SCALE: 5" = 100'
WHOLE CORE ANALYSIS

TOTAL WATER 0000
PERCENT PORE SPACE

80 60 40 20 0

GAMMA RAY
RADIATION INCREASE
→

PERMEABILITY
MILLIDARCYS

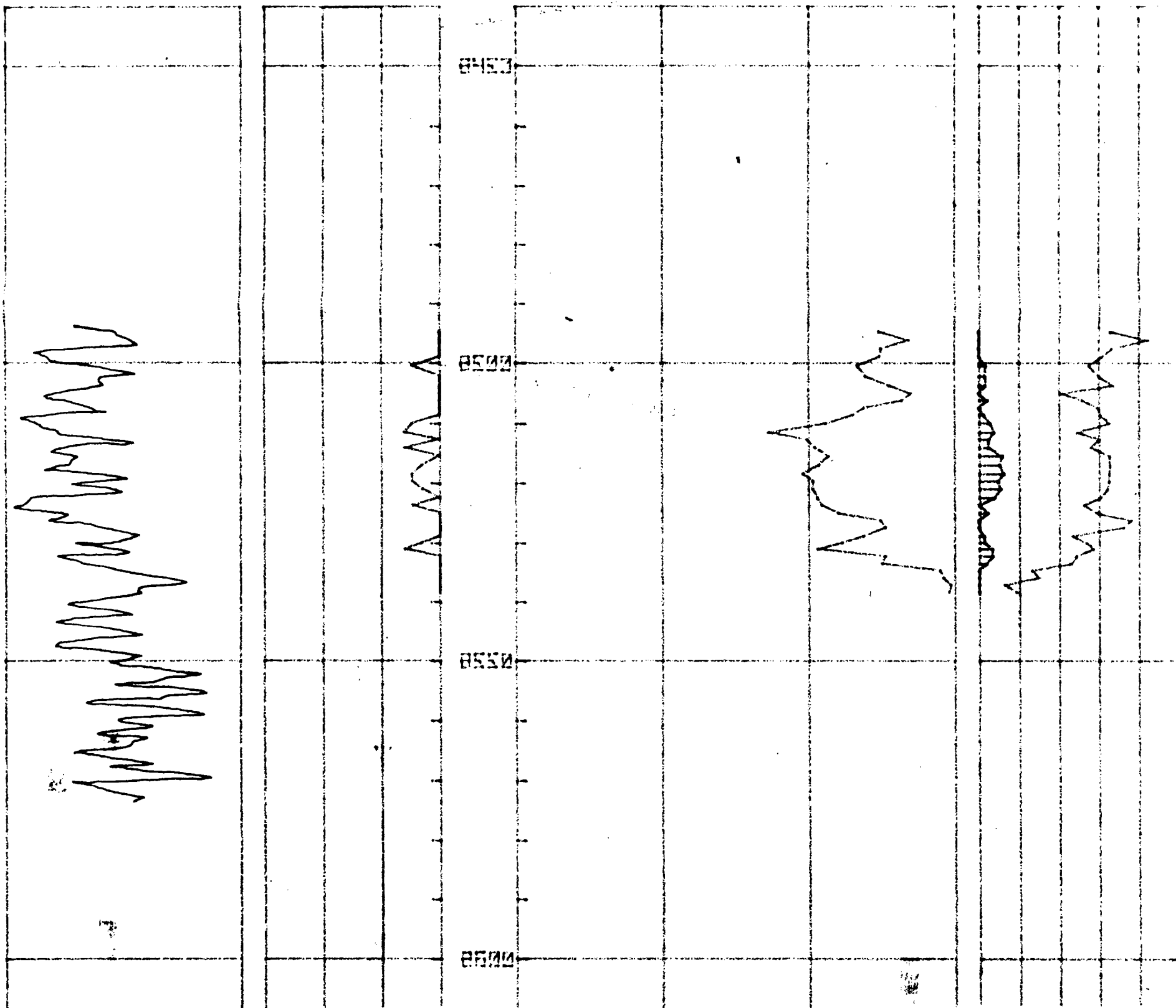
100.0 10.0 1.0 0.1

POROSITY
PERCENT

30 20 10

OIL SATURATION XXXX
PERCENT PORE SPACE

0 0 20 40 60 80



PAGE NO. 7

FIELD REPORT NO.: 05726 D

INSTRUMENT NO.: J-376

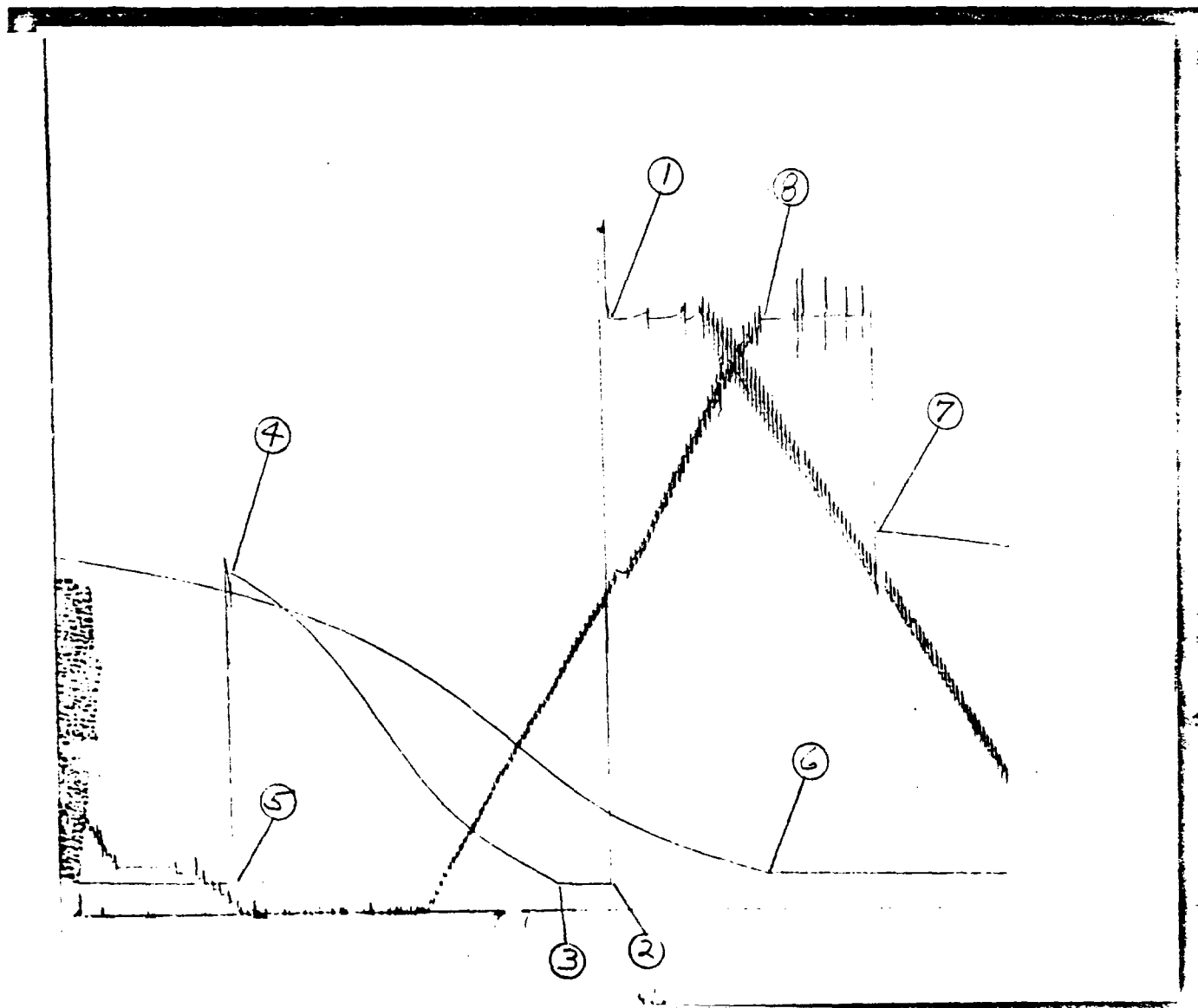
CAPACITY: 6400#

NO. OF REPORTS: 5-

C. W. TRAINER
BEFORE EXAMINER STOGNER
NMOCD CASE NO. 10617
DATE: 12/17/92
EXHIBIT NO. 10

C 3

PRESSURE DATA FROM THIS CHART IS PRESENTED ON NEXT PAGE



BOTTOM HOLE PRESSURE AND TIME DATA



INSTRUMENT NO.: J-376

CAPACITY(P.S.I.): 6400

DEPTH: 8567 FT.

PORT OPENING: OUTSIDE

BOTTOM HOLE TEMP.: 150

PAGE 1 OF 4

DESCRIPTION	LABELED POINTS	PRESSURE (P.S.I.)	GIVEN TIME	COMPUTED TIME
INITIAL HYDROSTATIC MUD	1	4407.6		
INITIAL FLOW(1)	2	215.9		
INITIAL FLOW(2)	3	219.7	15	15
INITIAL SHUT-IN	4	2544.9	90	91
FINAL FLOW(1)	5	248.9		
FINAL FLOW(2)	6	280.7	120	121
FINAL SHUT-IN	7	2804.1	241	240
FINAL HYDROSTATIC MUD	8	4394.9		

INCREMENTAL READINGS

LABEL POINT	DELTA TIME	PRESSURE (P.S.I.)	T + DT/DT	LOG	PW - PF (P.S.I.)	COMMENTS
1		4407.6				HYDROSTATIC MUD
2	0	215.9				INITIAL FLOW(1)
	1	215.9				
	2	215.9				
	3	215.9				
	4	213.3				
	5	213.3				
	6	213.3				
	7	214.6				
	8	214.6				
	9	214.6				
	10	215.9				
	12	217.1				
	14	219.7				
3	15	219.7				INITIAL FLOW(2)
3	0	219.7				STARTED SHUT-IN
	5	298.4	4.000	0.602	78.8	
	10	370.9	2.500	0.398	151.2	
	15	452.2	2.000	0.301	232.5	
	20	541.1	1.750	0.243	321.5	
	25	641.5	1.600	0.204	421.8	
	30	759.7	1.500	0.176	540.0	
	35	899.4	1.429	0.155	679.8	
	40	1060.8	1.375	0.138	841.1	
	45	1241.2	1.333	0.125	1021.6	
	50	1433.1	1.300	0.114	1213.4	
	55	1622.4	1.273	0.105	1402.7	
	60	1801.6	1.250	0.097	1581.9	
	65	1965.5	1.231	0.090	1745.8	
	70	2110.3	1.214	0.084	1890.7	
	75	2234.8	1.200	0.079	2015.2	
	80	2344.1	1.188	0.075	2124.4	
	85	2438.1	1.176	0.071	2218.5	
	90	2520.7	1.167	0.067	2301.1	
4	91	2544.9	1.165	0.066	2325.2	INITIAL SHUT-IN

LABEL POINT	DELTA TIME	PRESSURE (P.S.I.)	T + DT/DT	LUG	PW - PF (P.S.I.)	COMMENTS
5	0	248.9				FINAL FLOW(1)
	1	246.3				
	2	246.3				
	3	246.3				
	4	245.1				
	5	245.1				
	6	245.1				
	7	245.1				
	8	245.1				
	9	245.1				
	10	245.1				
	12	245.1				
	14	243.8				
	16	243.8				
	18	243.8				
	20	243.8				
	22	245.1				
	24	246.3				
	26	246.3				
	28	246.3				
	30	247.6				
	32	247.6				
	34	247.6				
	36	248.9				
	38	248.9				
	40	250.2				
	42	250.2				
	44	250.2				
	46	251.4				
	48	252.7				
	50	252.7				
	52	252.7				
	54	254.0				
	56	255.2				
	58	256.5				
	60	257.8				
	62	257.8				
	64	259.1				
	66	259.1				
	68	260.3				
	70	261.6				
	72	262.9				
	74	262.9				
	76	264.1				
	78	264.1				
	80	265.4				
	82	266.7				
	84	266.7				
	86	267.9				
	88	267.9				
	90	269.2				
	92	269.2				
	94	270.5				

LABEL POINT	DELTA TIME	PRESSURE (P.S.I.)	T + DT/DI	LOG	PW - PF (P.S.I.)	COMMENTS
	96	271.8				
	98	271.8				
	100	273.0				
	102	273.0				
	104	274.3				
	106	274.3				
	108	275.6				
	110	276.8				
	112	276.8				
	114	278.1				
	116	279.4				
	118	279.4				
	120	280.7				
6	121	280.7				FINAL FLOW(2)
6	0	280.7				STARTED SHUT-IN
	1	290.8	137.000	2.137	10.2	
	2	299.7	69.000	1.839	19.1	
	3	307.3	46.333	1.666	26.7	
	4	315.0	35.000	1.544	34.3	
	5	323.9	28.200	1.450	43.2	
	6	331.5	23.667	1.374	50.8	
	7	339.1	20.429	1.310	58.4	
	8	346.7	18.000	1.255	66.1	
	9	355.6	16.111	1.207	75.0	
	10	363.2	14.600	1.164	82.6	
	12	379.8	12.333	1.091	99.1	
	14	396.3	10.714	1.030	115.6	
	16	414.1	9.500	0.978	133.4	
	18	431.9	8.556	0.932	151.2	
	20	450.9	7.800	0.892	170.3	
	22	470.0	7.182	0.856	189.3	
	24	489.0	6.667	0.824	208.4	
	26	510.6	6.231	0.795	230.0	
	28	531.0	5.857	0.768	250.3	
	30	553.8	5.533	0.743	273.2	
	40	678.4	4.400	0.643	397.7	
	50	838.4	3.720	0.571	557.8	
	60	1032.9	3.267	0.514	752.2	
	70	1247.6	2.943	0.469	966.9	
	80	1463.6	2.700	0.431	1182.9	
	90	1663.1	2.511	0.400	1382.4	
	100	1838.4	2.360	0.373	1557.8	
	110	1989.6	2.236	0.350	1709.0	
	120	2116.7	2.133	0.329	1836.0	
	130	2224.7	2.046	0.311	1944.0	
	140	2314.9	1.971	0.295	2034.2	
	150	2394.9	1.907	0.280	2114.3	
	160	2463.5	1.850	0.267	2182.9	
	170	2523.3	1.800	0.255	2242.6	
	180	2576.6	1.756	0.244	2296.0	
	190	2623.6	1.716	0.234	2343.0	
	200	2665.6	1.680	0.225	2384.9	
	210	2703.7	1.648	0.217	2423.0	

LABEL POINT	DELTA TIME	PRESSURE (P.S.I.)	T + DT/DT	LOG	PW - PF (P.S.I.)	COMMENTS
	220	2740.5	1.618	0.209	2459.9	
	230	2773.6	1.591	0.202	2492.9	
7	240	2804.1	1.567	0.195	2523.4	FINAL SHUT-IN
8		4394.9				HYDROSTATIC MUD

MAGNOLIA PETROLEUM COMPANY

C SE SE

C. W. TRAINER

BEFORE EXAMINER STOGNER

NMOCD CASE NO. 10617

DATE: 12/17/92

EXHIBIT NO. 11

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Casing Record

Size	Set	Cement
13 3/8	364	300
9 5/8	1922	672

Shows

Water	Gas	Oil	Oil & Gas

State New Mexico County Chaves
 Company Ohio Oil Co.
 Farm Name State "WR" Well Number 1
 Scout Jim Rogers Contractor
 Pool Undesignated Elevation 3705 df
 Section 36 Township 11S Range 28E
 Feet from North 660' Feet from East
 660' Feet from South Feet from West

Formation Tops

Spe SA 1820
 Ques 5376
 WC 6340
 Penn 7769
 Dun 8324
 S. Y. 597
 Dun 1266
 SA 1830
 S. Y. 3174
 Dun 4590
 Ques 5397
 WC 6277
 Penn 6988
 Penn 7776

Spudded 9-14-59

T.D. 8465 data T.P.

I.P. PEA

G.O.R. Gr.

C.P. T.P.

Completed 11-25-59

Dun 8326

Date	2200' Dev.	Date	
9-16	TD 370' A, WOC		630 XW
SEP 23 1959	TD 2451 L WCC		820-1040 30/3240
SEP 30 1959	TD 3421 L	NOV 20 1959	ID 8465 <u>data</u> PB1868 <u>data</u>
OCT 7 1959	TD 5781 Sh. Rich.		208/1593-1650
OCT 14 1959	TD 6590 L		A 500
OCT 21 1959	TD 7715 L & Sh.		SOF 10000
OCT 28 1959	TD 8123 L	NOV 18 1959	TD 8465 <u>data</u> PB1868 <u>data</u> Sh.
	DST 7900-47 1000wb of 2'		BPE 1556
	Per WB + 120 SGCM		96/1456-80
	Per 460-460 30/AW		32/1490-98
NOV 4 1959	ID 8465 <u>data</u> p to PB		84/1513-34
	DST 8326-55 1000wb of 1'		MA 500
	Per WB		SOF 10000
	10 Mud, NS		Per 224 BLO 13' 1/4" <u>data</u>
	Per 500-500 30/3365		& <u>data</u>
	DST 8355-465 1000wb of 2'	NOV 2 1959	TD 8465 <u>data</u> PB1868 <u>data</u> PEA
	Per WB		Sh. & BNO 10' (1456-1534)
	270 Mud		didn't see <u>data</u> (1593-1650)

CHAVES
INGRAM, TOM

White Ranch
4 White Ranch
Sec 33, T11S, R29E

NM
Page #2

4-26-77 Continued
OST (WFMP) 7980-80', open 2 hrs, rec 45'
Mli GCM, 1 hr ISIP 263#, FP 84-84#, FSIP
failed, HP 4105-4135#, BHT 139 deg
5-3-77 Orlg 8797'
Cored (MSSP) 8534-73', rec 39' im
OST (MSSP) 8480-8573', open 2 hrs, rec 500'
G&DCM (Sampler rec .5 CFG + 2240 cc's G&DCM
240#), 1 hr 30 min ISIP 2556#, FP 256-281#,
hr FSIP 2811#, HP 4411-4411#, BHT 150 deg
5-10-77 TD 8810'; MORT
5-17-77 TD 8810'; PBD 8682'; Prep Perf

9-3-2 NM

5-23-77 TD 8810'; PBD 8682'; SI
Perf (MSSP) 8502-06', 8510-13', 8518-24',
8528-35'
Frac (8502-35') 25,000 gals + 7600# sd
5-31-77 TD 8810'; PBD 8682'; Swbg
6-7-77 TD 8810'; PBD 8682'; Flwg
8-9-77 TD 8810'; PBD 8682'; WOSP
8-12-77 TD 8810'; PBD 8682'; Complete
(Mississippian) FOUR POINT GAUGES:
Flwd 344 MCFGPD, 5/64" chk, 60 mins, TP 2290#
Flwd 512 MCFGPD, 6/64" chk, 60 mins, TP 2102#
Flwd 616 MCFGPD, 7/64" chk, 60 mins, TP 1975#
Flwd 718 MCFGPD, 9/64" chk, 60 mins, TP 1817#
LOG TOPS: Rustler Anhydrite 310', Yates 851',
Queen 1550', San Andres 2110', Glorieta 3460',
Tubb 4481', Abo 5712', Wolfcamp 6700',
Mississippian 8312'

9-3-2 NM

CHAVES

INGRAM, TOM L.

White Ranch

4 White Ranch
Sec 33, T11S, R29E

NM

Page #3

8-12-77

Continued

LOGS RUN: CNL, FDC, DILL

BHT 144 deg

9-17-77

COMPLETION ISSUED

9-3-2 NM

IC 30-005-70001-77

[illegible]

CONTR OPR'S ELEV 3792' GL PD 8395' WO

F.R.C. 5-21-77 OWWO
(Mississippian)
(Orig. Republic Natural-Seaboard #1 Plains
Radio Broadcasting-White Ranch, comp 4-7-53,
thru (Devonian) Perfs 8719-69', OTD 8775')
5-16-77 TD 8775'; PBD 8395'; Complete
PB to 8395'
Perf (Mississippian) 8320-49' w/1 SPF
Acid (8320-49') 6000 gals
(Mississippian) FOUR POINT GAUGES:
Flwd 847 MCFGPD, 1.750" orifice, 60 mins, TP 1950#
Flwd 1584 MCFGPD, 1.750" orifice, 60 mins, TP 1744#
Flwd 2068 MCFGPD, 1.750" orifice, 60 mins, TP 1545#
Flwd 2494 MCFGPD, 1.750" orifice, 60 mins, TP 1175#
5-3-1 NM

CHAVES
INGRAM, TOM L.

White Ranch
1 White Ranch
Sec 34, T11S, R29E

NM
Page #2

5-16-77; Continued
LOGS RUN: CNL, GRL
5-21-77 COMPLETION ISSUED

5-3-1 NM

DISTRIBUTION		
SANTA FE	1	
FILE	1	
U.S.G.S.	2	
LAND OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

C. C. C.
ARTESIA OFFICE

State ☐	Fee ☒
--------------------------------	---

5. State Oil & Gas Lease No.

7. Unit Agreement Name

8. Farm or Lease Name

White Ranch

9. Well No.

#2

10. Field and Pool, or Wildcat

White Ranch-Mississippia

12. County

Chaves

1. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

DRY ☐

OTHER

b. TYPE OF COMPLETION

NEW WELL ☐

WORK OVER ☒

DEEPEN ☐

PLUG BACK ☐

DIFF. RESVR. ☐

OTHER

2. Name of Operator

Tom L. Ingram

3. Address of Operator

P. O. Box 1757, Roswell, New Mexico, 88201

4. Location of Well

UNIT LETTER L LOCATED 1980 FEET FROM THE South LINE AND 660 FEET FROM

THE West LINE OF SEC. 34 TWP. 11S RGE. 29E

15. Date Spudded

4-23-53

16. Date T.D. Reached

7-17-53

17. Date Compl. (Ready to Prod.)

3-17-77

18. Elevations (DF, RAB, RT, GR, etc.)

3792 (3782 GL)

19. Elev. Casinghead

20. Total Depth

8808

21. Plug Back T.D.

8691

22. If Multiple Compl., How Many

23. Intervals Drilled By

Rotary Tools
0 - TD

Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name

8302 - 8344' Mississippian

25. Was Directional Survey Made

No

26. Type Electric and Other Logs Run

No new logs

27. Was Well Cored

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8		79		220 sx	-0-
8-5/8		2146	11	1400 sx	-0-
5-1/2	15.5 & 17#	8807	7-7/8	145 sx	-0-

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-7/8	8286	None

30. TUBING RECORD

31. Perforation Record (Interval, size and number)

8302-10, 20-28, 32-44, .48", 28

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
8302-44'	F/15000 gals + 29000 lbs. sd

33. PRODUCTION

Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
3-17-77		Flowing				Shut-In	
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
3-17-77	4	Varying					
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
Varying	Varying		9	2069 CAOF		66.4	

34. Disposition of Gas (Sold, used for fuel, vented, etc.)

Shut-In

Test Witnessed By

Joe A. Coleman

35. List of Attachments

Chronological Pressure Data, C-122

36. 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

TITLE

Operator

DATE

5/9/77

COUNTY	HAVES	FIELD Undesignated	STATE N.M.	OWWO
OPR	MOBIL OIL COMPANY, INC.			MAP
	White Ranch			
	Sec. 34, T-11-S, R-29-E			CO-ORD
	180' fr S Line & 660' fr W Line of Sec.			
	Spud 4-1-64	CLASS <i>OWNED</i> <i>EL 37928</i>		
	Comp 5-2-64	FORMATION	DATUM	FORMATION DATUM
CSG & S	RUBING			
	5½" 107' 145			
LOGS	EL GR RA IND HC A			
		TD 8810', PBD 8691'		

IP Mississippian Perfs 8302-44' Flwd 588 MCFGPD + 1 B Cond. &
 7 B BS&M. Pot. Based on 24 hr test thru 32/64" chk., TP 200#,
 CP 200#

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CONT.	PROP DEPTH	TYPE
DATE		

8-24-64 F.R.C. 8-27-64; OWWO, OTD 8810'.
 TD 8810', PBD 8691', COMPLETED.
 Squeezed perfs 8728-8742' W/100 sx.
 DO to 8691'
 Perf 8302-10', 8320-28' & 8332-44' W/1 SPF
 Ac. 5000 gals.

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LAND OFFICE	
OPERATOR	

Form C-104
Revised 10-78

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease State ☐ Fee ☒
5. State Oil & Gas Lease No.
7. Unit Agreement Name
8. Farm or Lease Name White Ranch
9. Well No. 3
10. Field and Pool, or Wildcat White Ranch - Mississippian

a. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐

b. TYPE OF COMPLETION
NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☒ DIFF. RESVR. ☒ OTHER ☐

Name of Operator
Wainoco Oil & Gas Company

Address of Operator
1200 Smith Street, Suite 1500, Houston, Texas 77002

Location of Well

WELL LETTER M LOCATED 990 FEET FROM THE south LINE AND 660 FEET FROM the west LINE OF SEC. 34 TWP. 11-S RGE. 29-E NMPM

15. Date Spudded PB 11-26-79	16. Date T.D. Reached -	17. Date Compl. (Ready to Prod.) 12-14-79	18. Elevations (DF, RAB, RT, GR, etc.) 3778' GR	19. Elev. Casinghead -
20. Total Depth 8774'	21. Plug Back T.D. 8660'	22. If Multiple Compl., How Many -	23. Intervals Drilled By Rotary Tools	24. Producing Interval(s), of this completion - Top, Bottom, Name 8340-70' Mississippian
25. Was Directional Survey Made -				26. Type Electric and Other Logs Run None this completion
27. Was Well Cored -				

CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48	62'	17-1/2"	60 sx.	0
8-5/8"	32	2134'	11"	1075 sx.	0
5-1/2"	15-1/2, 17, 20	8762'	7-7/8"	125 sx.	0

LINER RECORD					TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-7/8"	8237'	8237'

31. Perforation Record (Interval, size and number) 8340-60', 8365-70', 52 holes with 4" casing gun	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	8340-60, 8365-70'	5000 SCF nitrogen; 2500 gal. 15% acid, 75 ball sealers, 39,000 SCF nitrogen

PRODUCTION							
Date First Production 2-26-80	Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing					Well Status (Prod. or Shut-in) Producing	
Date of Test 3-4-80	Hours Tested 24	Choke Size 8/64"	Prod'n. For Test Period	Oil - Bbl. 2.3	Gas - MCF 560	Water - Bbl. 0	Gas-Oil Ratio 243,478 CF/bbl.
Flow Tubing Press. 1600	Casing Pressure 0	Calculated 24-Hour Rate	Oil - Bbl. 2.3	Gas - MCF 560	Water - Bbl. 0	Oil Gravity - API (Corr.) 23.0	

34. Disposition of Gas (Sold, used for fuel, vented, etc.)
Sold into pipeline

Test Witnessed by
Dale Bristow

35. List of Attachments
C-104

36. 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 Pat Budro TITLE Regulatory Coordinator DATE 3-7-80

CO. CHAVES POOL WHITE RANCH STATE N.M. KRDIENLEIN 152-54
SIL.
COMPANY Republic Natural Gas Co. et al - #3 - ELEV. 3788'
White Ranch 3789' K B
LOC 990' FSL & 660' FWL of sec.
Sec. 34-11S-29E

ACID OR SHOT	CASING RECORD	TIME
Acid 250 gals.	13-3/8 76 60	Anhy 316
Perf 28/8743-50	8-5/8 2150 1075	Yates 865
	5-1/2 8774 125	S.A. 2112
	2 8748	Glor 3350
		Tubb 4880
		Abo 5693
		Huoco 6718
		Miss 8130
		Dev. 8742
SPD 11-12-53 COMP 1-25-54		8742'
I. P. F. 351 BOPD; 13/64" ck.		8774' dol
GR 47.3 GOR 13 TP 195 Pkr. 8735		8759
REMARKS		

E-Log
Tb-1091

DV-4936

CONT'D ON PAGE 2

CO. CHAVES POOL WILDCAT STATE N.M. KRDIENLEIN 152-53
COMPANY Republic Nat. Gas & Seaboard of Del. - ELEV. 3792
#1 - White Ranch
LOC 1980' FNL & 660' FWL of
Sec. 34, T. 11-S, R. 29-E

et. w 2004

ACID OR SHOT	CASING RECORD	TIME
	13 3/8- 89- 150	Anhy. 345
	8 3/8-2130- 950	Salt 380
	5 1/2-8777- 100	Yates 870
	2 -8764	Queen 1558
		S. And. 2110
		Glor. 3350
		Abo 5645
		Huoco 6678
		Bend 8096
		Miss 8120
SPD 1-15-53 COMP 4-7-53		8719
I. P. F. 294 BOPD; 1/4" ch.; F. 98 BO/8 hrs.		8775 delo.
GR 47 GOR 46 TP 550 CP Pkr. 8667		8771
REMARKS MORE TOPS: Dev. 8727.		
CONT'D. PAGE 2.		

E-Log
Tb-1090

DV-4933

CHAVES, NEW MEXICO 34-11-29
Republic Natural Gas Co. et al - #3 -
White Ranch

K-152-51

PAGE 2

POPS: Dev. 8742 Water 8761

Crd. 8725-45 rec. 20' drk. gry sh. N.S.

Crd. 8745-50 rec. 5' drk. gry sh. N.S

Crd. 8750-57 rec. 6-1/2' (4' drk gry sh, 1/2' sh & dol.,
2' dol. vuggy por. bleed oil.

DST 8717-57 op 4 hrs. 17 mins, rec. 2060' free oil, 430'
HOCM, FP 900 30 min SIP 3625

DST 8757-62 op 2 hrs. 10 mins, rec. 2990' free oil
430' O&GCM, FP 200-1100 30 min SIP 3475#

DST 8764-74 op 2 hrs. 35 mins, rec. 7730' XW; 270' XWCM
FP 350-3525 15 min SIP 3525#

Perf 28/8743-50

Trt. 250 gals. perfs.

CHAVES, NEW MEXICO. 34-11-29
Republic Nat. Gas & Seaboard of Del. - #1 - White Ranch.

K-152-82

PAGE 2.

DST 2698-2890 op. 1 hr., rec. 50' SGCM, 700' mud;
FP 275; SI 975.

DST 3365-3448 op. 30 mins., rec. 100' mud, 60'
salty WCM, 90' XW; FP 0; SI 1400.

DST 8340-8400 op. 1 hr., rec. gas 1 hr., 17
mins., est. 35,000 CFQPD, rec. 250' HOCM.

Core 8753-60 rec. 7' frac. dolo. very good poro.

DST 8715-60 op. 1 hr., gas 39 mins., mud 42 mins.,
oil 48 mins., F. 12 mins., est. 30 BOFH;
circ. rec. 6525' oil / 50' HOCM; Gr 48; no
wtr.; FP 3600; SI 3750.

Core 8760-8775 rec. 15' coarse xlyn. vug. dolo.
tr. cht. good fluor. str. & odor.

DST 8717-71 op. 1 hr., 44 mins., mud 21 mins.,
oil 29 mins., F. 91 BO/1 hr.; Gr 47; circ.

CONT'D. PAGE 3.

CHAVES POOL WHITE RANCH STATION, MEX. KROENLEIN 152-53
 SILURO DEV.
 COMPANY Republic Nat. Gas. & Seaboard -#2- ELEV. 3792
 White Ranch
 LOC. 1980' FSL & 660 FWL
 Sec. 34, T-11-S, R-29-E

ADDITION OR SHUT	CASING RECORD	TOPS
750 gal. see remarks	13 3/8- 79-220 8 5/8-2146-1400 5 1/2-8807-125 2 -8748	A 325 Y 870 SA 2115 Glor 3345 Tubb 4878 Abo 5695 Miss 8126 Dev 8725
SFD. 4-23-53 COMP. 7-17-53		TP 8725 TD 8810-dol. PBD
I. P. F. 2598.40 BOPD 1/2"chk. (2598.40 BOPD) GR 47 GOR 14 TP 220 Pkr 8663 REMARKS F 982 BO/9 hr. Cont. Page 2		

Tb-1082

DU-4933

CO. CHAVES POOL UNDESIGNATED STATE N.M. KROENLEIN
 OWWO
 COMPANY Socony Mobil Oil Co., Inc. - #2 - White Ranch
 (fmly. opr. by Republic Nat. Gas. & ELEV. 3792
 LOC. 1980' FSL & 660' FWL Seaboard Oil Co.) DF
 Sec. 34, T.11-S, R.29-E

PAY STIMULATION	CASING	TOPS
Perf: 8302-old 5 1/2-8807-125 8344		Miss. 8126
SFD. re- COMP. 5-2-64		
I. P. F. 588,000 CFGPD + 1 bbl. cond. + 7 bbl. BS&W, 32/64"ch. GR. - GOR - TP 200 CP 200 TP 8302(Miss.) REMARKS: Sqz. old perfs 8728-8742' 0 TD 8810 dolo. w/100 sx; DO/8691'. Perf 1SPF: PBD 8691 8302-10, 8320-28, 8332-44; 5000 acid.		

CHAVES, N.MEX. 34-11-29

Page 2

Republic Nat. Gas & Seaboard -#2- White Ranch

Core 960-1010 rec. 50' being 19' sh & anhy, 4' dol,
3' sh, 1 1/2' dol, good show, 8 1/2' sh & anhy.
3' dol good show, 12 1/2' sh

DST 978-1010 op 20 min rec. 15' SOCM

" 8696-8770 op 5 1/2 hr, mud 45 min, O&GCM 70 min
died 4 1/2 hr, Fl.rate 10-30 BOPD est. 1 hr.,
rec. 8290' O&GCM, rec. 500' brackish wtr. below
sub.

Core 8770-8780 rec. 5' frac.dol, odor O&G

DST 8760-8780 op 1 hr rec. 5370' SW

Perf 56/8728-42

swb. 12 to 13 BOPH

Tr 750/8728-48 Fl. 982 BO/9 hr. 1/2"chk.

K-152-53

CHAVES, NEW MEXICO. 34-11-29

PAGE 3.

Republic Nat. Gas & Seaboard of Del. - #1 - White Ranch.

rec. est. 8170' oil rec. 400' HO&GCM & 60'
brackish wtr. (core analysis cut mud) FP
2200; SI 3800.

Perf. 160/8730-8770

Perf. 200/8719-8779

F. 97 BO/4 hrs.; 1/4" ch.

F. 6 BOPH; 1/4" ch.

Co. CHAVES

WILDCAT

STATE N.M. KROENLEIN 76-53

COMPANY Great White Drlg. Co. - #1 - White Ranch

ELEV. 3620'

LOC. 1980' FNL of sec.
Sec. 1, T-28-E R-28-E

ACID OR SHOT

CASING RECORD

13-3/8 167 225
9-5/8 1899 200

TOPS

Anhy 120
Yates 520
7 River 610
Queen 1210
S.A. 1770
Abo 5320
B. Abo 5880
Penn tent 6800
Miss 7620
Dev 8152

SPD. 6-15-53

COR

8-24-53

I. P. P&A

GR. BOR

CP

REMARKS DST 8144-67 of 2-1/2 hrs. rec. 45' - 56' GCM,
900' O&SGCM, 2520' HO&GCSW. PP 1980
SIP 3120'

TO 8167' dol

COUNTY CHAVES, NEW MEXICO. WHITE RANCH, WEST-DEV.
OPR. I. W. LOVELADY
LSE WHITE RANCH
LOC. Sec. 1, T-12-S-R-28-E, 1836' FNL and 660' FEL OF
Sec.

MAPS _____ CO-ORD _____
 F.R. 11-19-64 OBJ. 8500' METHOD _____ SPUD 11-18-64
 CTR. _____ C.R. _____ ELEV D. F. 3690
 LOGS _____ SPS _____
 TO 8147' time P&A _____ ABD LOC. _____ P & A 1-3-65
 PAY ZONE TOP PAY PRODUCING INTERVAL IP BO W BSW HRS TEST B7

CHONE GOR GTY CP TP POT DATE TREATMENT

8 5/8-1951-550

INFORMATION ON THIS TICKET COMPILED FROM COPYRIGHTED MATERIAL AND NOT TO
 CSG-TBG-PKR RECORD PRODUCED WITHOUT EXPRESS PERMISSION FROM MIDLAND OIL SECURITIES ASSOCIATION.

COUNTY CHAVES, NEW MEXICO. WHITE RANCH, WEST-DEV.

WELL: I. W. LOVELADY #2 WHITE RANCH

DATE _____ WELL RECORD

P&A 1-3-65

ELEV 3690

SPL (LOG) MARKERS

S.A. (1790)

Glor. (3120)

Abo (5350)

Miss. (7644)

Dev. (8134)

DST 7710-8140 open 1 hr. 30 min. rec.

90' DF FP 201-201 ESIP 661#.

DST 8050-8147 open 1 hr. 30 min. rec.

1080' oil, sty. 46, 150' HO&GCM, 870'

sul. wtr. ISIP 3288,

partially plugged.

CO. CHAVES

POOL WILDCAT

STATE N.M. KROENLEIN

126-54

COMPANY Jack Ma Cham - #1 - Union-White Ranch ELEV. 3681'

LOC. 660' FSL & FWL of sec.

Sec. 1-12S-28E.

ACID OR SHOT

CASING RECORD

TYPE

13-3/8 155 175
9-5/8 1900 350

Anby	235
Yates	525
Queen	1221
SA	1775
Glor	3000 ●
Abo red sh	5335
Abo ls	6323
Penn	6870
Miss	7652
Dev.	8210

SPD. 10-1-54 COMP. 12-2-54

I. P. P&A

GR. GOR TP CP
REMARKS CONT'D ON PAGE 2TO 8260' dol & cht.
PBD

CO. CHAVES

POOL WILDCAT

STATE N.M. KROENLEIN 192-59

PRE-PERMIAN DEVONIAN DISCOVERY

COMPANY J. C. Williamson - #1 - White Ranch ELEV. 3695 DF

660' FNL & FEL

Sec. 1, T.12-S, R. 28-E8500' (corr.) from 8500'

ACID OR SHOT

CASING RECORD

OH/500 acid-
3128-408 5/8-1967- 600
5 1/2-3128- 150

Yates	610
S. And.	1230
Abo	5390
Miss.	7640
Dev.	8132

6-10-59 7-22-59

F. 389 BO/24 hrs., 20/64" ch.

G. 45. GOR TSTK SI=1200 CP 800
REMARKS8132
8140 L.

CONT'D. PAGE 2.

CHAVES, N.M. SEC. 1-123-28E
Jack Markham - #1 - Union-White Ranch

K-126
PAGE 2

BT 8213-20 had hole in drill pipe rec. 1200' mud BS.
P 8214-35 op 3 hr 15 mins, rec. 38' mud, FP 15-30
15 min SIP -0-
BT 8214-60 op 4 hrs. rec. 540' MCSW, FP 55-305 15 min
SIP 3050#

CHAVES, N.M. 1-12-28
J. C. Williamson - #1 - White Ranch

K-19259
PAGE 2

DST 8100-40, op. 1 1/2 hrs. rev out 990' free oil
rec. below sub 60' HO&SGCM, 450' HO&SGCM, FP 55-510
SIP 3295/30".
c/o TD 8140; 500 c. MA flo. load, flwd @ rate of 10 BWOPH
Grav. 45.5, TP 500# CP 800#; F. 389 BO/24 hrs.,
20/64" ch.; Gr. 45; TP 75#; SITP 600#.

CHFIELD OIL CORPORATION

WELL HISTORY CARD

FORM 762 10M 1-48

LOG ☒

PLOTTED ☐

ELEC. LOG ☐

COUNTY	CHAVES	POOL	Wildcat	STATE	New Mexico	ELEV.	3710'
COMPANY	Richfield Oil Corporation		LEASE	White, J. P.		WELL NO. 3-1	
LOCATION	FR. N	660'	FR. S	1980'	FR. E	OK 1980'	FR. W

SECTION	6	BLK.	TWP.	R.	29-E	SURVEY		
SHOOTING RECORD				CASING RECORD			DEPTH	DATUM
				SIZE	LANDED	CEMENT	T. A.	
				11 3/4	1850	1200	T. S.	
				7 w/pkr @2465			B. S.	
ACID TREATMENT							T. YATES	630' S
							T. S. A.	720' S
							Queens	1312' S
							T. S. A.	1870' S
							B. S. A.	
LOCATION	2-12-47	SPUDED	3-3-47	COMPLETED	7-13-47		Glor.	3100' Sch.
ROTARY TO	2 200			CABLE TO			Abo	5420' Sch.
I. P.							Hueco	6370' Sch.
GRAVITY	G. O. R.		T. P.		C. P.		Penn	6620' Sch. ?
REMARKS							Miss	7750' Sch. 720 4000
							Sil.	8295' Sch. 4585
							T. P.	P & A
							T. D.	9058' gneiss
							P. B. D.	

T. Ell. 8760' Spls. (5050)

T. Metamorphies 9030' Sch.

(OVER)

CHAVES POOL WILDCAT STATE W. M. KROENLEIN 95-53
 COMPANY N. B. Hunt - #3-1 - J. P. White ELEV. 3710
 (Orig. Drlg. Richfield Oil - #1 - White Card #152)
 LOG 660'PSL & 1980'FWL
 Sec. 6, T. 12-S, R. 29-E

ACID OR SHOT	CASING RECORD	TOPS
REC. 8-1-53 COMP. 8-12-53 I. P. P & A GR. GOR TP CP REMARKS DST 8324-8366 op. 2 hrs., rec. 6444: break. wtr.		Sil.-Dev. 8320 TP TD 9058 Or. PED

FDX

[illegible]

COUNTY CHAVES		FIELD White Ranch, West-/		STATE NM	
OPR LOVFIADY I W.		/Devonian		MAP	
2 White Ranch					
Sec. 1, T-12-S, R-28-E				CO-ORD	
1836' fr N Line & 660' fr E Line of Sec.					
Spud 11-18-64		CLASS		EL 2190	
P&A 1-3-65	FORMATION	DATUM	FORMATION	DATUM	
CSG & SX - TUBING	LOG:				
	SA 1790				
	Glor 3120				
	Abo 5350				
	Miss 7644				
8 5/8" 1951' 550	Dev 8134				
LOGS EL GR RA IND HC A					
	TD 8147'				

PLUGGED & ABANDONED

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CONT.	PROP DEPTH	8500'	TYPE
DATE			

F.R. 11-19-64
PD 8500' - Devonian
11-23-64 Drlg. 1922'
11-30-64 Drlg. 3460'
12-7-64 Drlg. 5165'
12-14-64 Drlg. 6304' lm.
12-21-64 Drlg. 7409' lm. & sh.
1-4-65 TD 8147', PLUGGED & ABANDONED.
DST 7710-8140', open 1 hr 30 mins,
Rec 90' drlg fluid
FP 201-201#, FSIP 661#.
DST 8050-8147', open 1 hr 30 mins,
Rec 1080' oil, gravity 46., 150' HO&GCM,
870' HG&SOCM + 5430' sul wtr
ISIP 3288#. (Tool partially plugged)
(Holding for tops)
1-11-65 TD 8147', Completion Reported

CHAVES COUNTY

NEW MEXICO

WILDCAT

Well DEPCO, INC. 1 Sundance Federal "B"

Result: DEA

WF

Loc: 30 mi SE/Hagerman, 1980' FSEEL's Sec II-12S-29E.

Spud: 6-27-78; Comp: 8-10-78; Elev: 3802' grd; TD: 9217' Dev;

Casing: 13 3/8" 3151/350 sx, 8 5/8" 2279'/1260 sx

Comp Info: DST-SP (Miss) 8765-8845', op 1 hr, (Sampler rec 1700 cc's DF @ 50#); 1 hr
FSIP 131#, FP 22-22#, 3 hr FSIP 283#, HP 4477-4499#; ran CN1, FDC, BHC & DILL
logs; C/Moranco.Tops: (EL) Yates 970', San And 2237', Glor 3620', Tubb 5030', Abo 5864', Wolfe 6800',
Cisco 7474', Cany 7710', Strawn 8116', Satoka 8418', Miss 8614', Dev 9189'

API No.: 30-005-60495

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Petroleum Information

CORPORATION

A Subsidiary of A.C. Nielsen Company

Date: 9-20-78

Card No: 2 rm

CO CHAVES

POOL W. WHITE RANCH STATE N.M. ~~KROENLEIN~~ 192-59
-DEVONIAN

COMPANY J. C. Williamson - #2 - White Ranch

Elev 3693

LOC 990' FNL & 660' FWL
Sec. 6, T.12-S, R. 29-E
8500'

AC OR SHOT

CASING RECORD

8 5/8- 492- 450

Yates	575
S. And.	1320
Glor.	3140
Tubb	4570
Abo	5330
Miss.	7658

SPU 11-15-59 COMP 12-31-59

I. P. P. A

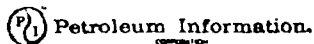
GR BOR

REMARKS

8166 L.

2643

2473



COUNTY CHAVES FIELD Wildcat STATE NM
OPR DEPCO, INC. API 30-005-60495
W 1 LEASE Sundance Federal "B" MAP
Sec 11, T12S, R29E COORD
1980' FSL, 1980' FEL of Sec 9-3-2 NM
30 mi NE/Hagerman SPD 6-27-78 CMP 8-10-78

CNC 13 3/8" at 315' w/350 sx 8 5/8" at 2279' w/1260 sx	WELL CLASS: INIT WF FIN WF ELEV L & S			
	FORMATION	DATUM	FORMATION	DATUM
	ID	9217' (DVNN)	PHD	

DRY & ABANDONED

CONTR Moranco OPRSTEV 3802' GL PD 9027' RT

F.R. 2-27-78
(Mississippian)
7-18-78 Drlg 6810' lm & sh
7-24-78 Drlg 7765'
7-31-78 Drlg 8651' lm & sh
8-7-78 Drlg 9128'
8-14-78 TD 9217'; D&A (Hold)
DST-SP (Mississippian) 8765-8845' op
1 hr (Sampler rec 1700 cc's DF @ 50#)
1 hr ISIP 131#, FP 22-22#, 3 hr FSIP
283#, HP 4477-4499#
9-11-78 TD 9217'; Dry & Abandoned
LOG TOPS: Yates 970', San Andres 2237',
Glorieta 3620', Tubb 5030', Abo 5864',
Wolfcamp 6800', Cisco 7474', Canyon 7710',
Strawn 8116', Atoka 8418', Mississippian

9-3-2 NM

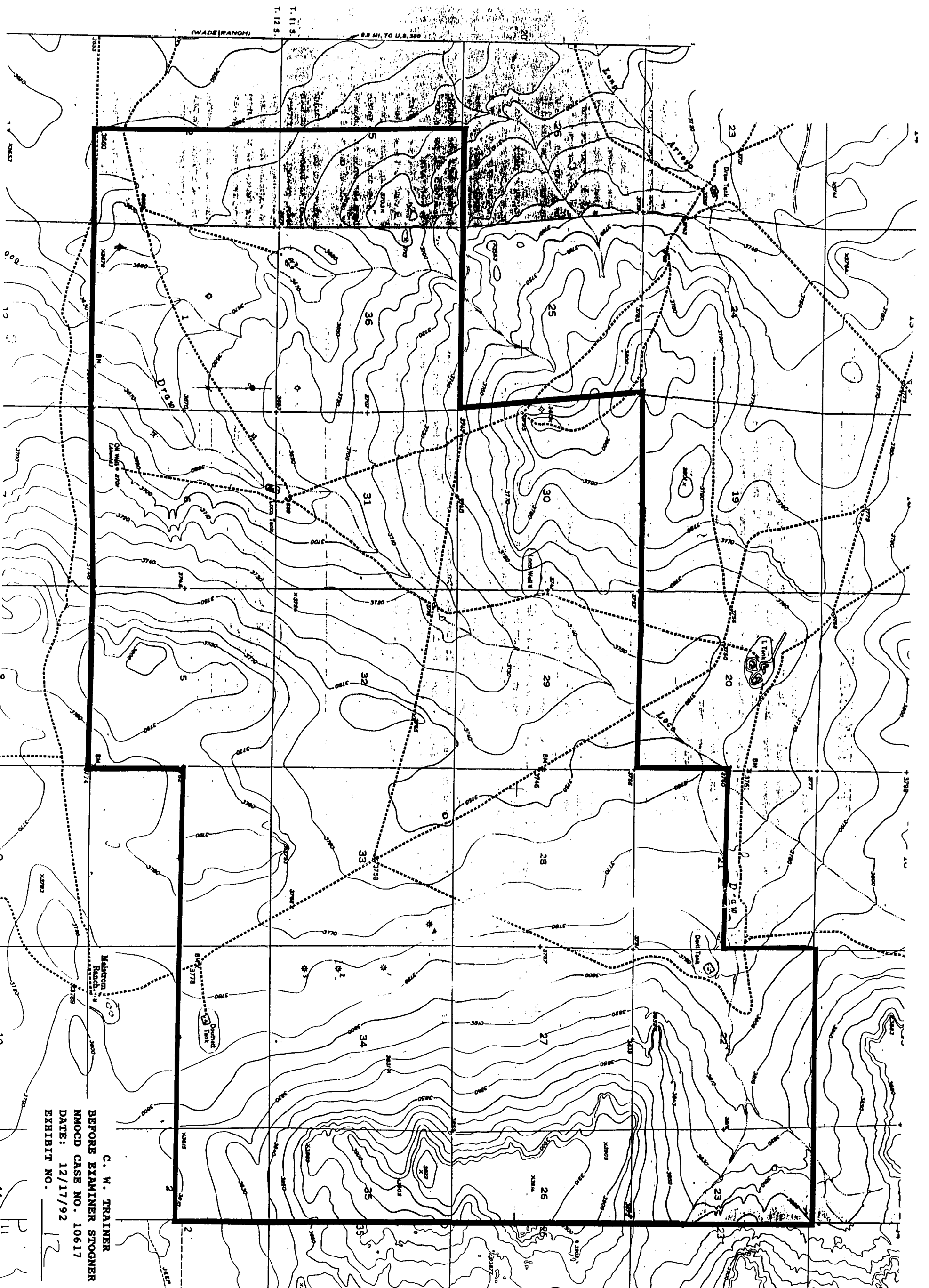
CHAVES
DEPCO, INC.

Wildcat
Sundance Federal "B"
Sec 11, T12S, R29E

NM
Page #2

9-11-78 continued
 Monian 9189'
 CNI, FDC, BHC, DILL
9-16-78 INFORMATION ISSUED

9-3-2 NM
IC 30-005-70024-78



C. W. TRAINER
BEFORE EXAMINER STOGNER
NMOC CASE NO. 10617
DATE: 12/17/92
EXHIBIT NO. 12

C.W. TRAINER
 WHITE RANCH #4
 WHITE RANCH MISSISSIPPIAN
 660' FNL & 660' FEL, SEC 33-T11S-R29E
 CHAVES COUNTY, N.M.

PERFORATED INTERVAL 8502' TO 8535'
 (11' DEPTH CORRECTION)
 C. W. TRAINER
 BEFORE EXAMINER STOGNER
 NMOC CASE NO. 10617
 DATE: 12/17/92
 EXHIBIT NO. 13

FLOW
 CAPACITY
 Kr
 vs.
 Slw

CORE DATA

DEPTH TOP	DEPTH BOTTOM	PERM. MD.	POROSITY %	FEET FT.	CAPACITY MD.-FT.	POROSITY -FT.	Sw %	SATURATION (WETTING) LIQUID) MD.-FT.
8491.0	8494.0	*	*	*	*	*	*	*
8494.0	8495.4	0.017	5.2	1.4	0.02	7.28	34.3	0.0158
8495.4	8496.9	0.005	3.1	1.5	0.01	4.65	15.0	0.0068
8496.9	8498.2	0.015	5.0	1.3	0.02	6.50	35.3	0.0130
8498.2	8499.5	0.016	5.1	1.3	0.02	6.63	38.2	0.0116
8499.5	8501.3	0.300	6.6	1.8	0.54	11.88	44.8	0.2322
8501.3	8503.0	0.031	6.1	1.7	0.05	10.37	40.2	0.0274
8503.0	8504.4	0.011	4.5	1.4	0.02	6.30	32.3	0.0108
8504.4	8505.4	0.004	3.0	1.0	0.00	3.00	59.3	0.0010
8505.4	8506.7	0.006	3.5	1.3	0.01	4.55	48.3	0.0027
8506.7	8508.0	0.100	6.2	1.3	0.13	8.06	40.6	0.0650
8508.0	8509.0	0.050	6.9	1.0	0.05	6.90	39.4	0.0270
8509.0	8510.8	0.300	8.8	1.8	0.54	15.84	34.5	0.3888
8510.8	8512.0	0.400	12.7	1.2	0.48	15.24	51.2	0.2736
8512.0	8513.2	0.100	10.1	1.2	0.12	12.12	39.5	0.0624
8513.2	8514.6	0.400	9.6	1.4	0.56	13.44	44.2	0.2240
8514.6	8516.1	0.100	8.6	1.5	0.15	12.90	34.8	0.1050
8516.1	8517.6	0.200	9.3	1.5	0.30	13.95	34.5	0.2100
8517.6	8519.0	0.300	10.4	1.4	0.42	14.56	34.9	0.2940
8519.0	8520.1	0.300	9.7	1.1	0.33	10.67	34.9	0.2310
8520.1	8521.6	0.200	9.7	1.5	0.30	14.55	35.6	0.2040
8521.6	8523.0	0.100	9.4	1.4	0.14	13.16	38.8	0.0840
8523.0	8524.1	0.300	9.1	1.1	0.33	10.01	47.9	0.1122
8524.1	8525.6	0.100	8.0	1.5	0.15	12.00	41.3	0.0750
8525.6	8526.6	0.016	5.1	1.0	0.02	5.10	23.7	0.0128
8526.6	8528.1	0.013	4.7	1.5	0.02	7.05	27.4	0.0144
8528.1	8529.4	0.033	6.2	1.3	0.04	8.06	53.6	0.0137
8529.4	8530.4	0.200	7.7	1.0	0.20	7.70	46.2	0.0800
8530.4	8531.5	0.400	9.4	1.1	0.44	10.34	42.5	0.2112
8531.5	8532.8	0.013	4.7	1.3	0.02	6.11	51.3	0.0056
8532.8	8534.0	0.015	5.0	1.2	0.02	6.00	53.6	0.0054
TOTAL				40.0	5.44	284.92		3.0204

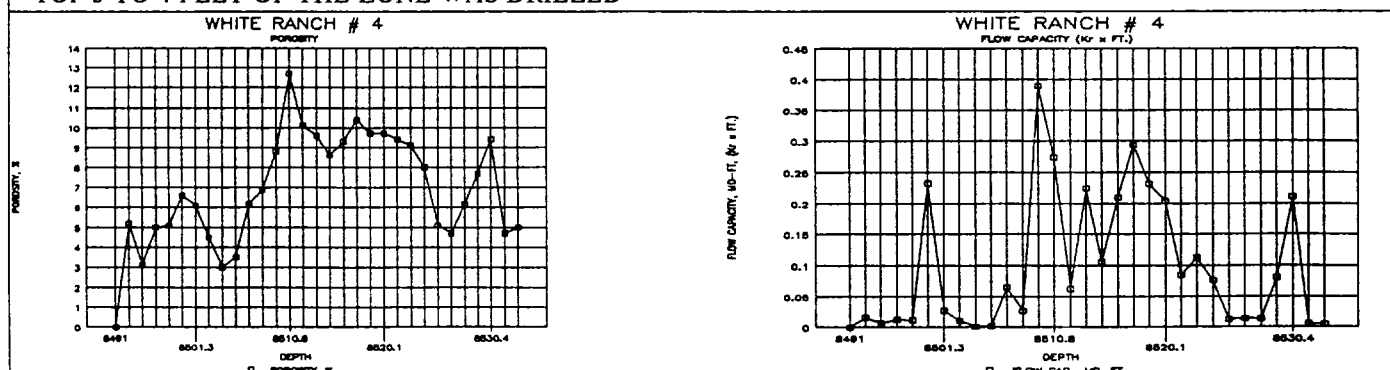
AVERAGE POROSITY

7.12

Kr =

0.0755

* TOP 3 TO 4 FEET OF THE ZONE WAS DRILLED



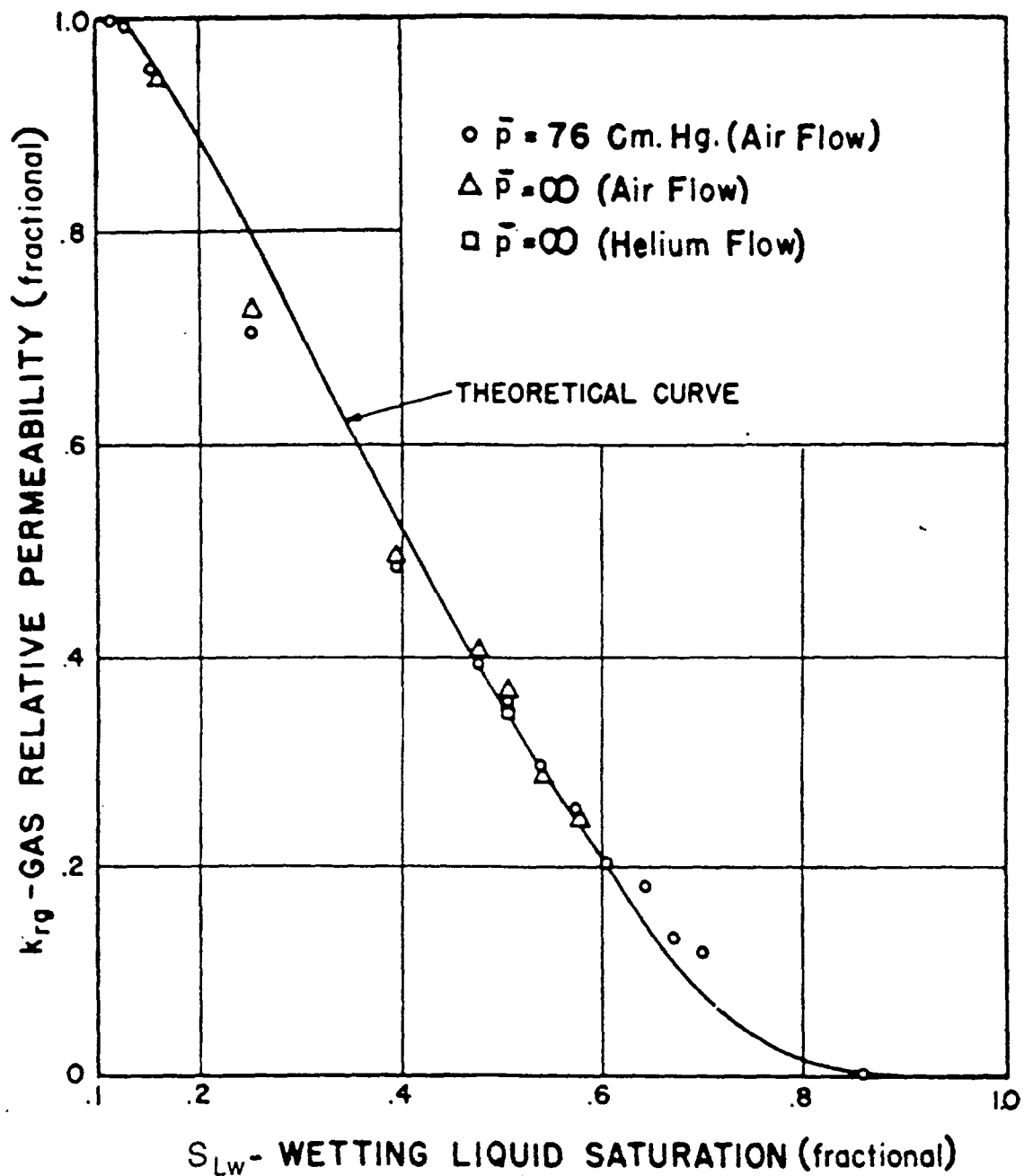


Fig. 28.7—Gas relative permeability vs. total wetting-liquid saturation.

Reference

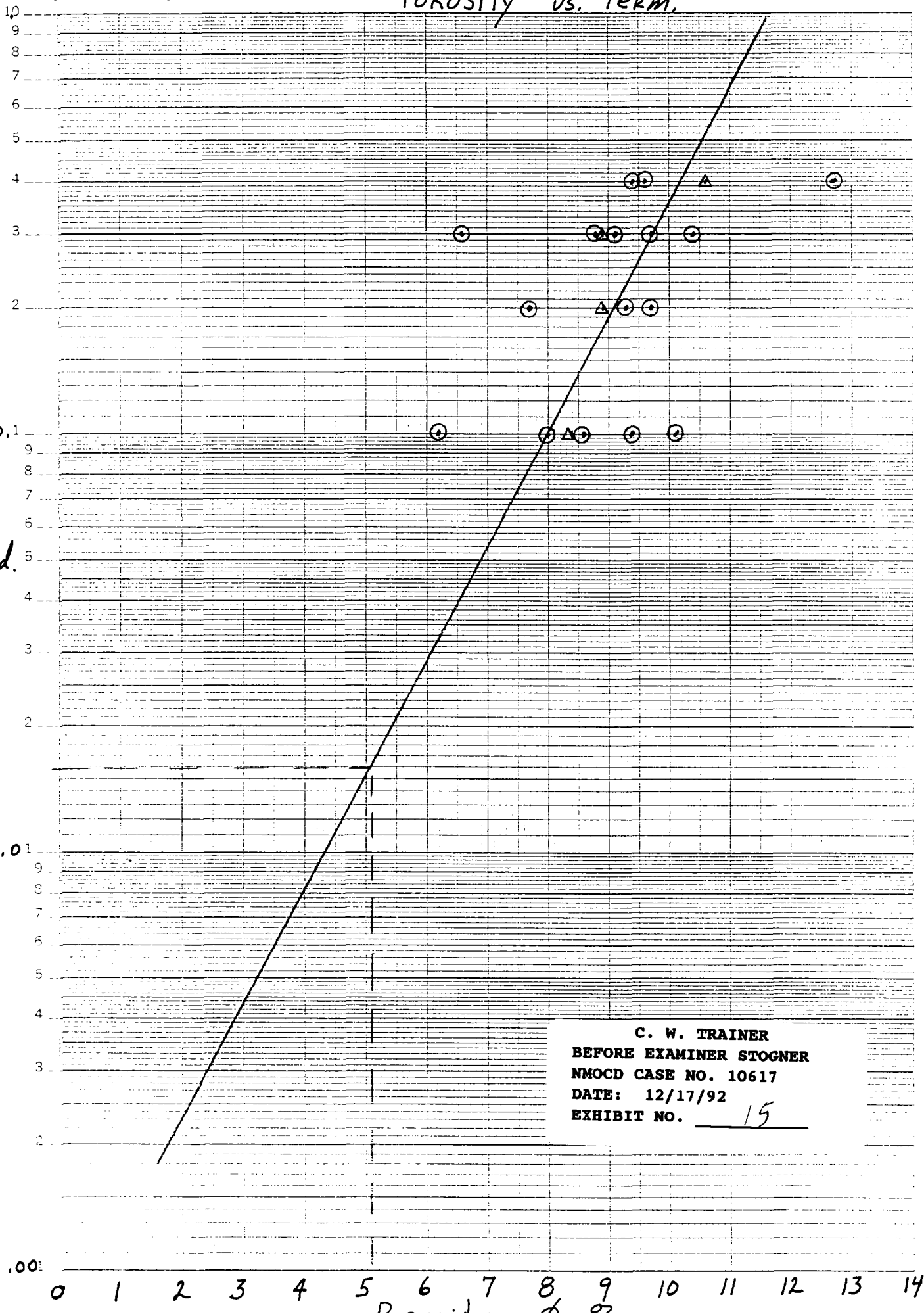
Bradley, H.B., *Petroleum Engineering Handbook*, Society of Petroleum Engineers, Richardson, Texas, (1987), p. 28-8

WHITE RANCH "1"
8494'-8534'

Porosity vs. Perm.

46 5810
K_{md.}

SEMI-LOGARITHMIC 3 CYCLES x 140 DIVISIONS
NEUBERGER & ESSLER CO. MADE IN U.S.A.



C. W. TRAINER
BEFORE EXAMINER STOGNER
NMOCD CASE NO. 10617
DATE: 12/17/92
EXHIBIT NO. 15

White Ranch #4

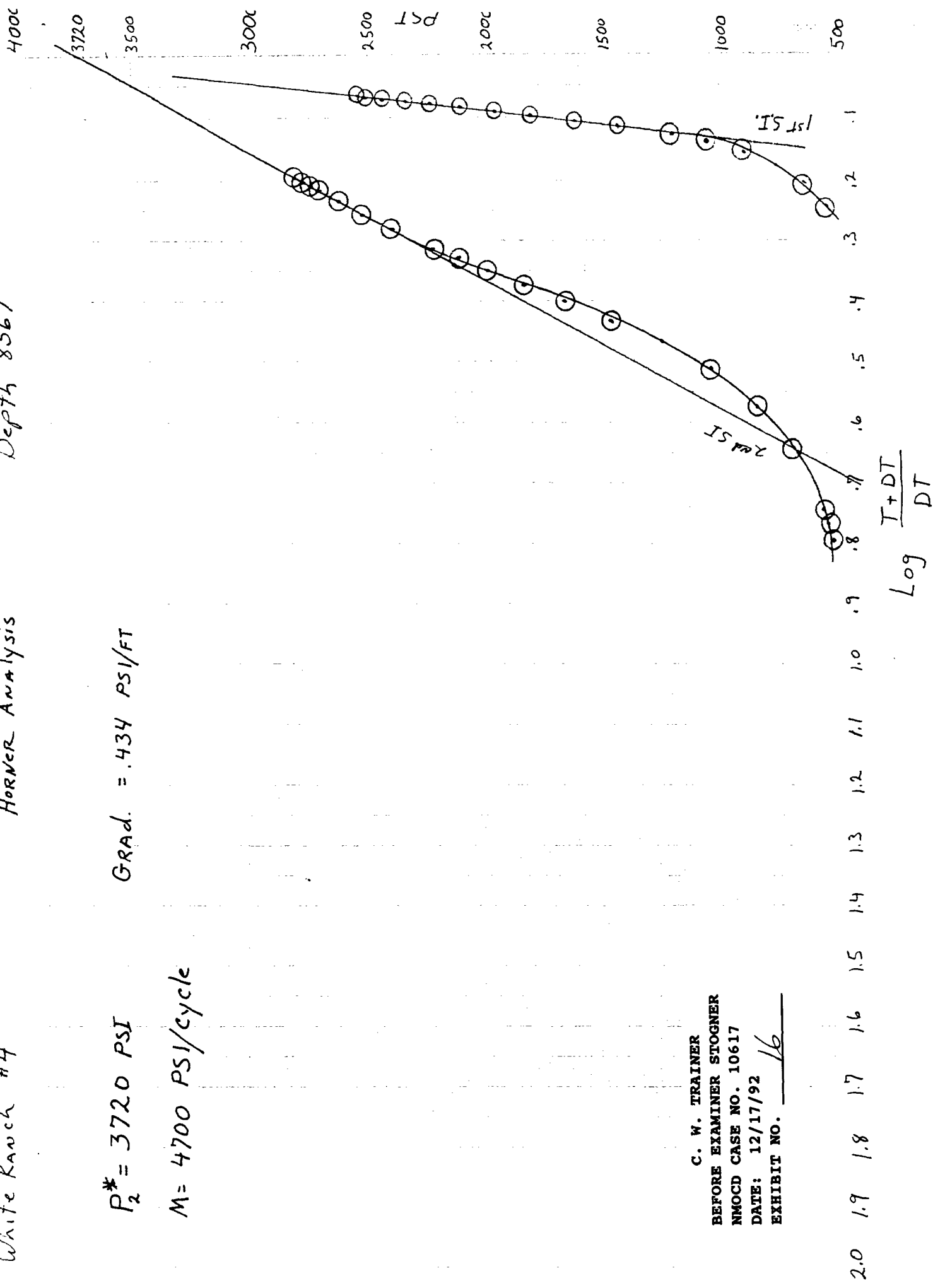
HORNER Analysis

Depth 8567'

$$P_2^* = 3720 \text{ PSI}$$

$$\text{GRAD.} = .434 \text{ PSI/FT}$$

$$M = 4700 \text{ PSI/cycle}$$



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QUALITATIVE ANALYSIS - DST # 4 8480' to 8573'

DST #4 was a good mechanical test in which the test tools functioned properly.

Recovery was 500 feet , 2.45 bbls, of slightly gas cut mud, total flow time was 136 minutes.

The sampler contained 2240 cc of mud at 250 psi, no measurable quantities of reservoir fluids were recovered.

Shut-in curves indicate a low permeability formation, without damage. The first shut-in , total 90 minutes, was not adequate to reach the straight line portion of the curve. The second shut-in, total 240 minutes, reached the straight line portion of the curve after being shut-in for 160 minutes. The pressure was building at a rate of 5.98 psi/min. at the 160 minute shut-in time. This yielded a line with a slope value of 4700 psi/cycle.

The slope value is high and is indicative of a low permeability formation. An example calculation was made using this slope and a flow rate of 30 MCFGD. This example calculation yield a permeability for the 44 foot interval of .001 md.

This tests indicates a reservoir that is not capable of commercial production in its natural state.

Example: GAS Calculation

Assumed Rate - 30 mcfGD

P^* - 3720 PSI

P_{i0} - 980 psi

$T_R (460^\circ R + 135^\circ)$ - 595 °R

Z - .86

$$\frac{Kh}{\mu} = \frac{1637 \times Q_g \times Z \times T}{(P^{*2} - P_{i0}^2)}$$

$$\frac{Kh}{\mu} = \frac{1637 \times 30 \times .86 \times 595}{14,798,800} = 1.698 \frac{\text{md-ft}}{\text{cP}}$$

$$Kh = 1.698 \times \mu_g$$

$$\mu_g = .025 \text{ cP}$$

$$Kh = 1.698 \times .025 = .042 \text{ md-ft}$$

$$K = \frac{.042}{h}$$

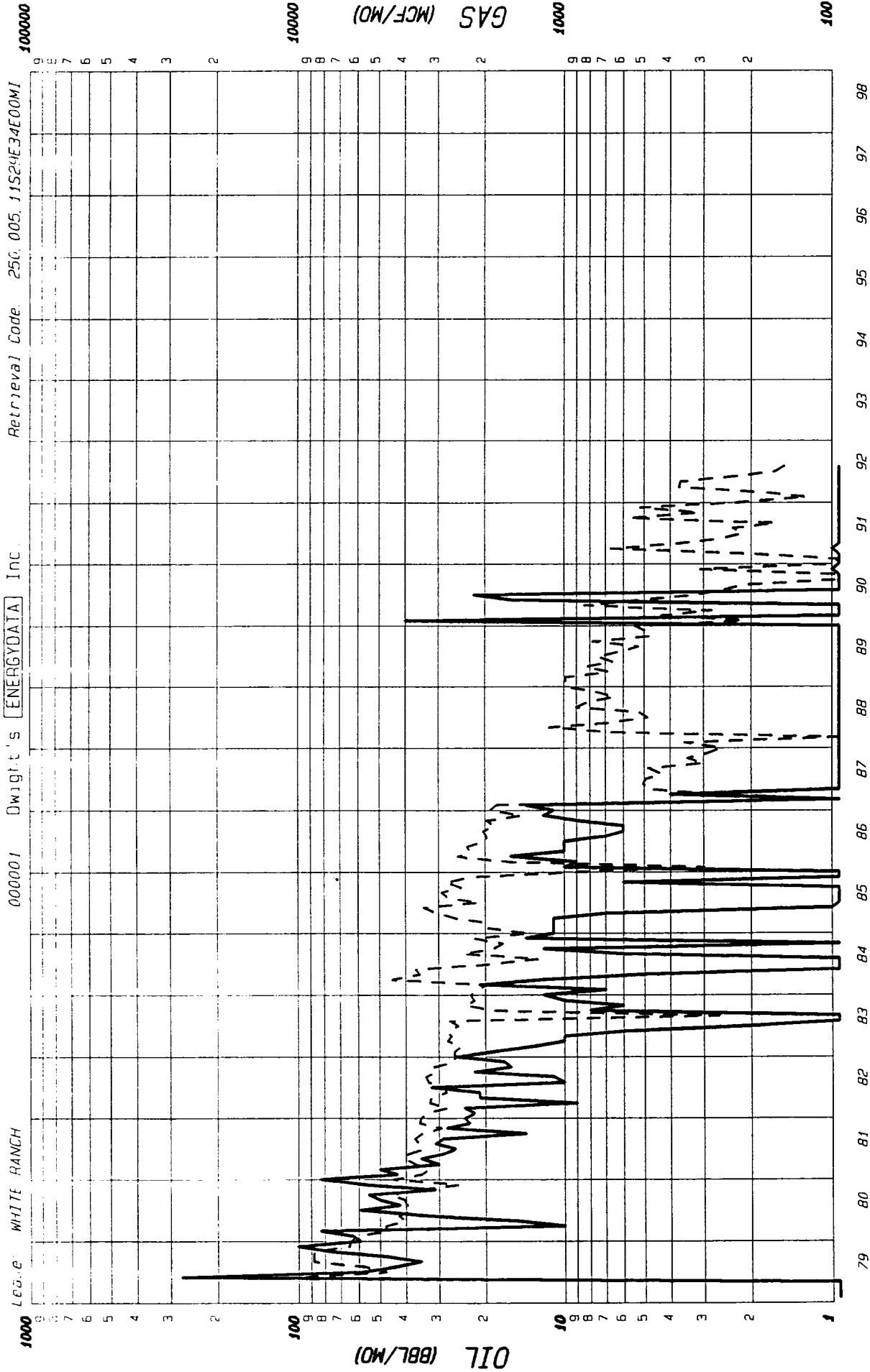
$$K = \frac{.042}{44} = .001 \text{ md}$$

MISSISSIPPIAN WELLS WHICH HAVE PRODUCED IN CHAVES COUNTY NEW MEXICO

WELL NAME	LOCATION	MAXIMUM PRODUCTION		CUMULATIVE	
		GAS MCFD	OIL BOPD	GAS MCF	OIL BO
WHITE RANCH #1	34E-T11S-R29E	306.45	8.71	328,298	2,312
WHITE RANCH #2	34L-T11S-R29E	251.61	4.84	183,302	1,802
WHITE RANCH #3	34M-T11S-R29E	290.32	2.26	186,400	1,383
WHITE RANCH #4	33A-T11S-R29E	170.97	10.65	67,310	2,211
ESTELLE FEDERAL #1	34E-T12S-R30E	129.03	0.00	8,004	0
HUDSON FED. #1	27M-T12S-R30E	1806.45	77.42	1,020,220	8,027
BIKAR FED. #1	14G-T10S-R29E	322.58	3.71	191,138	726
WHITWORTH RU ST. #1	12H-T9S-R26E	9.03	0.00	808	0
O'BRIAN RANCH #1	26G-T8S-R29E	22.90	0.00	4,094	0
GEN. AMERICAN FED. #1	7E-T7S-R31E	25.16	0.81	*	*
CHATTEN & MUNCY #1	18O-T6S-R28E	306.45	0.00	21,176	0
PLAINS 16 ST. #1	16B-T11S-R28E	58.06	0.00	22,280	0
TOTAL				2,033,030	16,461
12 WELL AVERAGE				169,419	1,372

* BAD DATA

C. W. TRAINER
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 EXHIBIT NO. 17



County: CHAVES State: NM
 Field: WHITE RANCH (MISSISSIPPIAN)
 Reservoir: MISSISSIPPIAN
 Operator: TRAINER C W
 Oil Cum: 2312 Gas Cum: 328298
 Location: 34E 11S 29E

Dwight's Energydata, Inc. DLOOK 4.20 Record # 3 Run date: 12/13/92
 Property data from file: D:\PROD-CD\TRAINER.D Retrieval code: 250,005,11S29E34E00MI

Operator (#737018)	Lease name	Well #
TRAINER C W	WHITE RANCH	000001

Ident. #	State	Dist	County	Location	Lse/tax /unit #
11S29E34E00MI	NM(30)	2	005 CHAVES	34E 11S 29E	0

API #	Field (#8081124)	MI	Reservoir
30-005-00424	WHITE RANCH (MISSISSIPPIAN)	MI	MISSISSIPPIAN

Total Depth	Perforations Upper Lower	Temp Gradient	N-Factor	GOR
0	0 0	0.000	0.000	0

Comp Date	Production Dates First Last	Status Date	Status
0	7905 9207	0	ACT

Cumulative gas MCF	Since FP Date	Gas Gravity	Gas Gatherer
328298	FP Date	0.00	SMI

Cumulative liquid BBL	Since FP Date	Liquid Gravity	Liquid Gatherer
2312	FP Date	0.00	DIA

Dwight's Energydata, Inc. DLOOK 4.20 Record # 3 Run date: 12/13/92
 Gas test data from file: D:\PROD-CD\TRAINER.D Retrieval code: 250,005,11S29E34E00MI
 Lease: WHITE RANCH Well #: 000001

Test Date	Cum at Test	WHSIP	BHP	BHPZ	M/C	Type Pot	bd water	bd cond	whflow	poten	init test
790919	34883	905	0	0		0	0	0	0	0	0
800819	94018	771	0	0		0	0	0	0	0	0
810722	135280	792	0	0		0	0	0	0	0	0
820722	174047	741	0	0		0	0	0	0	0	0
830727	208171	886	0	0		0	0	0	0	0	0
840706	235401	855	0	0		0	0	0	0	0	0
850831	266784	513	0	0		0	0	0	0	0	0
861006	292528	536	0	0		0	0	0	0	0	0
870705	301095	773	0	0		0	0	0	0	0	0
880722	306788	13	0	0		0	0	0	0	0	0
890719	316316	593	0	0		0	0	0	0	0	0
900616	321810	1213	0	0		0	0	0	0	0	0
910807	324953	1031	0	0		0	0	0	0	0	0

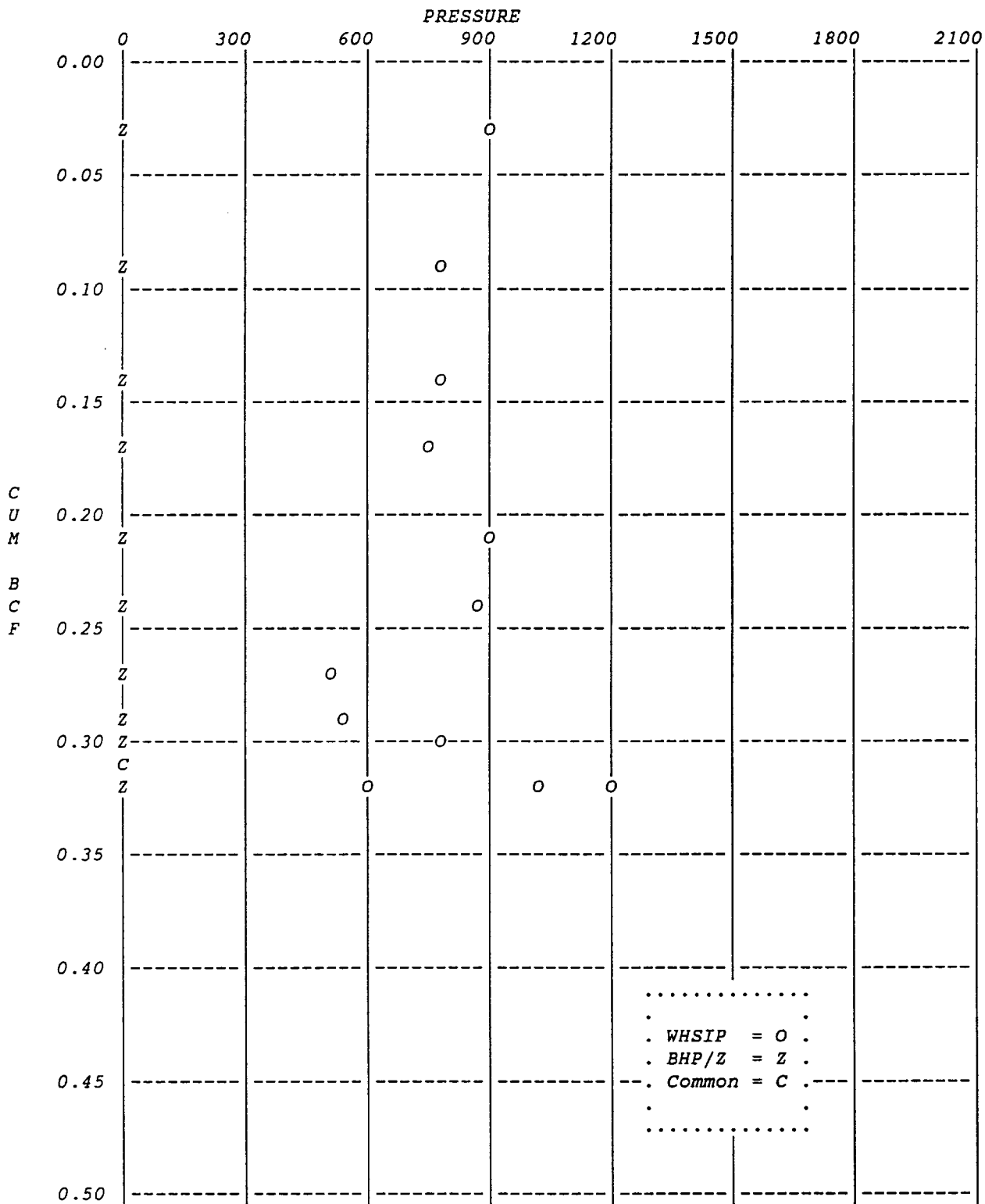
Dwight's Energydata, Inc. DLOOK 4.20 Record # 3 Run date: 12/13/92
 Production data from file: D:\PROD-CD\TRAINER. Retrieval code: 250,005,11S29E34E00MI
 Lease: WHITE RANCH Well #: 000001

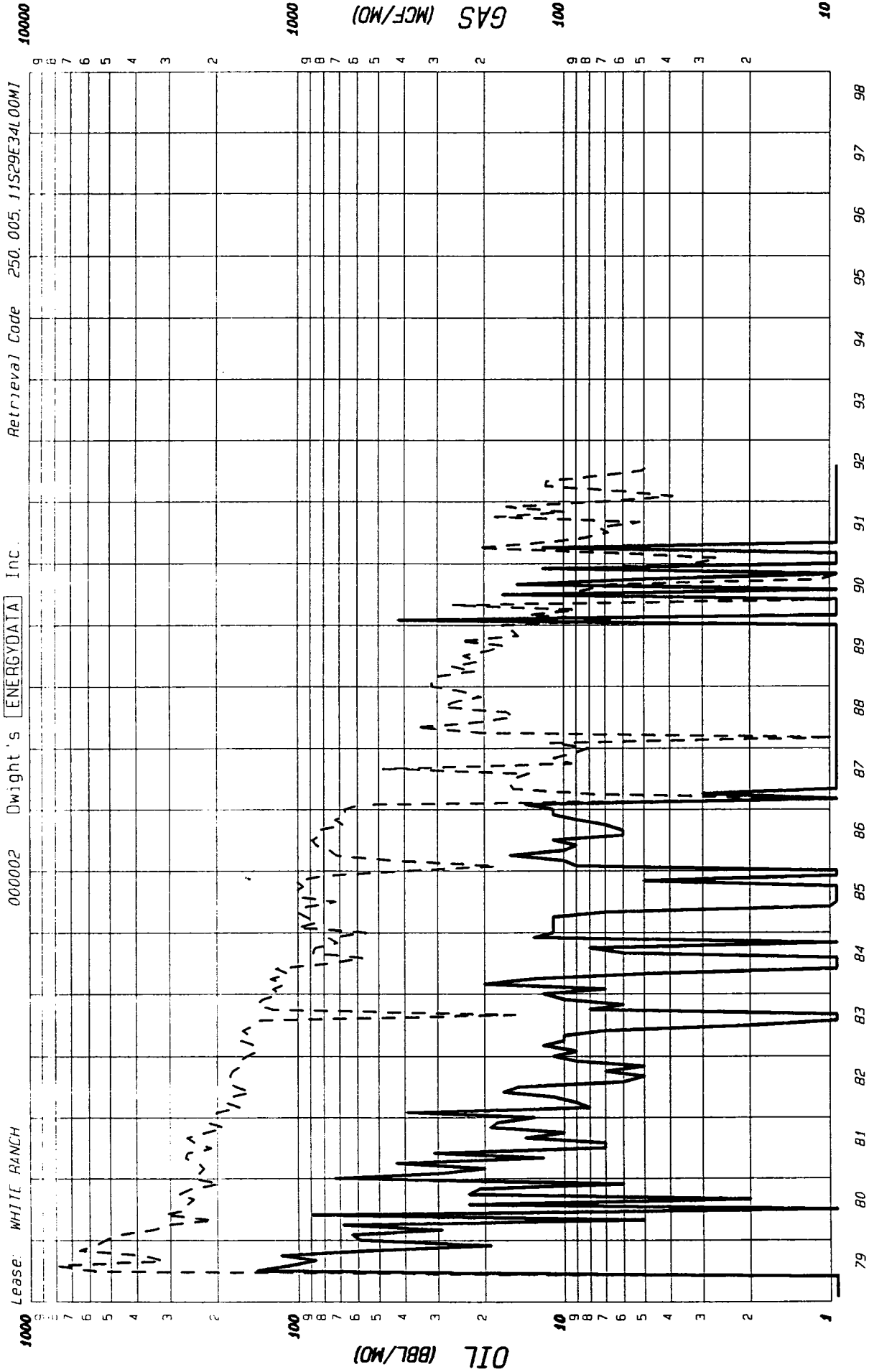
Month	Oil bbls	Cum Oil bbls	Gas mcf	Cum Gas mcf	Water bbls	No.of Wells
Total 1979	695	695	59864	59864	114	1
Total 1980	579	1274	50891	110755	0	1
Total 1981	362	1636	42658	153413	0	1
Total 1982	231	1867	36400	189813	0	1
Total 1983	96	1963	27594	217407	0	1
Total 1984	88	2051	28599	246006	0	1
Total 1985	47	2098	29242	275248	0	1
Total 1986	116	2214	22219	297467	0	1
Total 1987	18	2232	5658	303125	0	1
Total 1988	0	2232	7903	311028	0	1
January	0	2232	991	312019	0	1
February	0	2232	991	313010	0	1
March	0	2232	680	313690	0	1
April	0	2232	831	314521	0	1
May	0	2232	659	315180	0	1
June	0	2232	753	315933	0	1
July	0	2232	608	316541	0	1
August	0	2232	527	317068	0	1
September	0	2232	782	317850	0	1
October	0	2232	470	318320	0	1
November	0	2232	491	318811	0	1
December	0	2232	541	319352	0	1
Total 1989	0	2232	8324	319352	0	1
January	40	2272	212	319564	0	1
February	0	2272	431	319995	0	1
March	0	2272	281	320276	0	1
April	0	2272	838	321114	0	1
May	16	2288	524	321638	0	1
June	22	2310	324	321962	0	1
July	0	2310	258	322220	0	1
August	0	2310	212	322432	0	1
September	0	2310	34	322466	0	1
October	0	2310	0	322466	0	1
November	1	2311	308	322774	0	1
December	0	2311	102	322876	0	1
Total 1990	79	2311	3524	322876	0	1
January	0	2311	81	322957	0	1

Dwight's Energydata, Inc. DLOOK 4.20 Record # 3 Run date: 12/13/92
 Production data from file: D:\PROD-CD\TRAINER. Retrieval code: 250,005,11S29E34E00MI
 Lease: WHITE RANCH Well #: 000001

Month	Oil bbls	Cum Oil bbls	Gas mcf	Cum Gas mcf	Water bbls	No.of Wells
February	0	2311	199	323156	0	1
March	1	2312	667	323823	0	1
April	0	2312	386	324209	0	1
May	0	2312	259	324468	0	1
June	0	2312	215	324683	0	1
July	0	2312	233	324916	0	1
August	0	2312	162	325078	0	1
September	0	2312	572	325650	0	1
October	0	2312	311	325961	0	1
November	0	2312	517	326478	0	1
December	0	2312	224	326702	0	1
Total 1991	1	2312	3826	326702	0	1
January	0	2312	124	326826	0	1
February	0	2312	190	327016	0	1
March	0	2312	370	327386	0	1
April	0	2312	365	327751	0	1
May	0	2312	234	327985	0	1
June	0	2312	162	328147	0	1
July	0	2312	151	328298	0	1
Total 1992	0	2312	1596	328298	0	1

Dwight's Energydata, Inc. DLOOK 4.20 Record # 3 Run date: 12/13/92
 Gas test data from file: D:\PROD-CD\TRAINER.D Retrieval code: 250,005,11S29E34E00MI
 Lease: WHITE RANCH Well #: 000001
 Field: WHITE RANCH (MISSISSIPPIAN) MI Reservoir: MISSISSIPPIAN
 Operator: TRAINER C W Gas cum: 328298





County: CHAVES State: NM
 Field: WHITE RANCH (MISSISSIPPIAN) MI
 Reservoir: MISSISSIPPIAN
 Operator: TRAINER C W ^{Wells}
 Oil Cum: 200478 (1802) Gas Cum: 183302
 Location: 34L 11S 29E

F. P. Date

Date: 12-13-92

Dwight's Energydata, Inc. DLOOK 4.20 Record # 4 Run date: 12/13/92
 Property data from file: D:\PROD-CD\TRAINER.D Retrieval code: 250,005,11S29E34L00MI

Operator (#737018)	Lease name	Well #
TRAINER C W	WHITE RANCH	000002

Ident. #	State	Dist	County	Location	Lse/tax /unit #
11S29E34L00MI	NM(30)	2	005 CHAVES	34L 11S 29E	0

API #	Field (#8081124)	Reservoir
30-005-00423	WHITE RANCH (MISSISSIPPIAN)	MI MISSISSIPPIAN

Total Depth	Perforations Upper Lower	Temp Gradient	N-Factor	GOR
0	0 0	0.000	0.000	0

Comp Date	Production Dates First Last	Status Date	Status
0	0 9207	0	ACT

Cumulative gas MCF	Since FP Date	Gas Gravity	Gas Gatherer
183302	FP Date	0.00	SUG

Cumulative liquid BBL	Since FP Date	Liquid Gravity	Liquid Gatherer
200478	FP Date	0.00	DIA

Dwight's Energydata, Inc. DLOOK 4.20 Record # 4 Run date: 12/13/92
 Gas test data from file: D:\PROD-CD\TRAINER.D Retrieval code: 250,005,11S29E34L00MI
 Lease: WHITE RANCH Well #: 000002

Test Date	Cum at Test	WHSIP	BHP	BHPZ	M/C	Type Pot	bd water	bd cond	whflow	poten	init test
760720	6758	2284	0	0		0	0	0	0	0	0
790920	26348	1075	0	0		0	0	0	0	0	0
800819	68570	701	0	0		0	0	0	0	0	0
810722	95227	778	0	0		0	0	0	0	0	0
820722	118659	856	0	0		0	0	0	0	0	0
830727	137942	791	0	0		0	0	0	0	0	0
840706	150243	1018	0	0		0	0	0	0	0	0
850831	161991	463	0	0		0	0	0	0	0	0
861006	171441	430	0	0		0	0	0	0	0	0
870705	174505	783	0	0		0	0	0	0	0	0
880722	176638	13	0	0		0	0	0	0	0	0
890719	179665	593	0	0		0	0	0	0	0	0
900616	181243	963	0	0		0	0	0	0	0	0
910807	182241	835	0	0		0	0	0	0	0	0

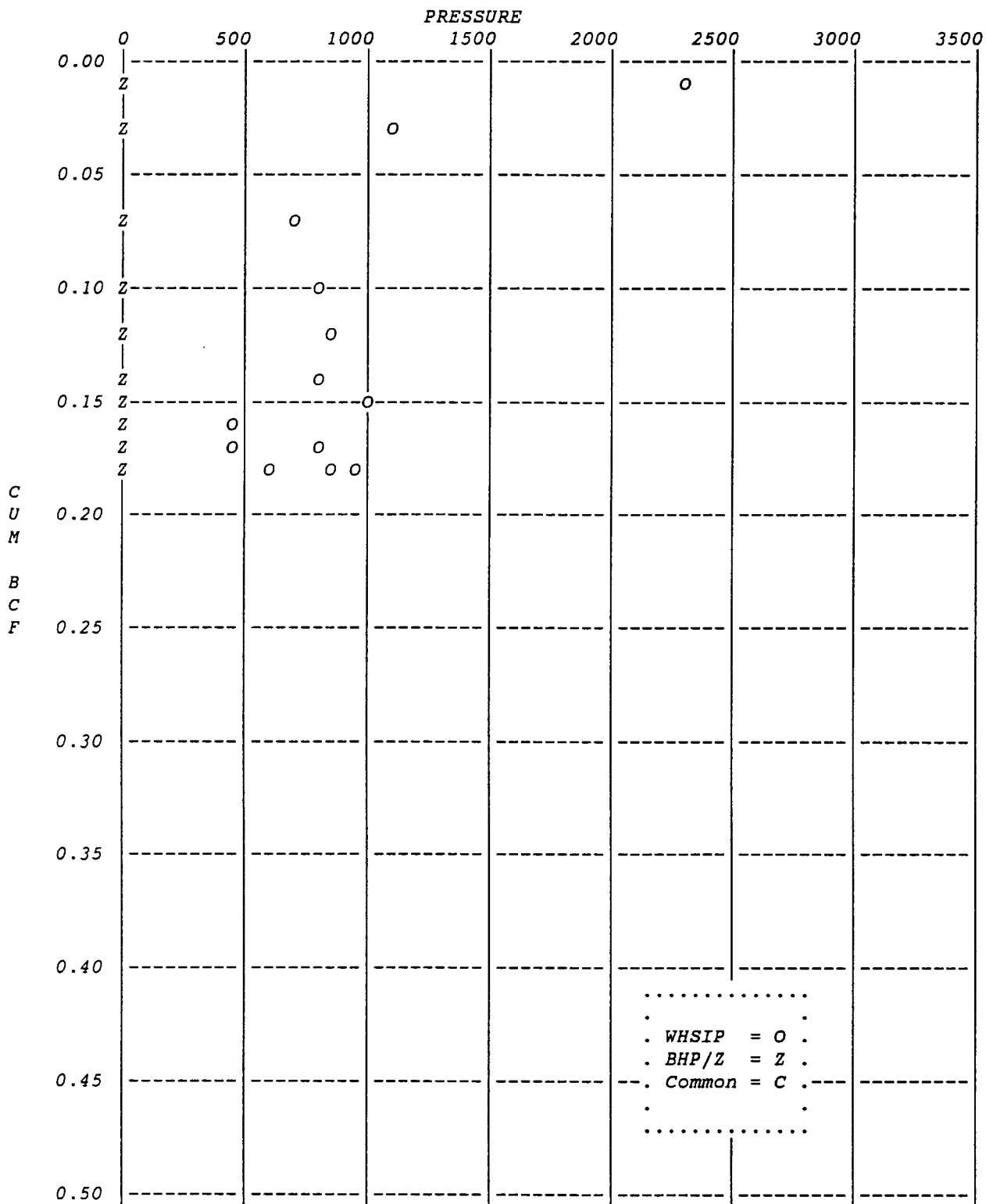
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 Production data from file: D:\PROD-CD\TRAINER. Retrieval code: 250,005,11S29E34L00MI
 Lease: WHITE RANCH Well #: 000002

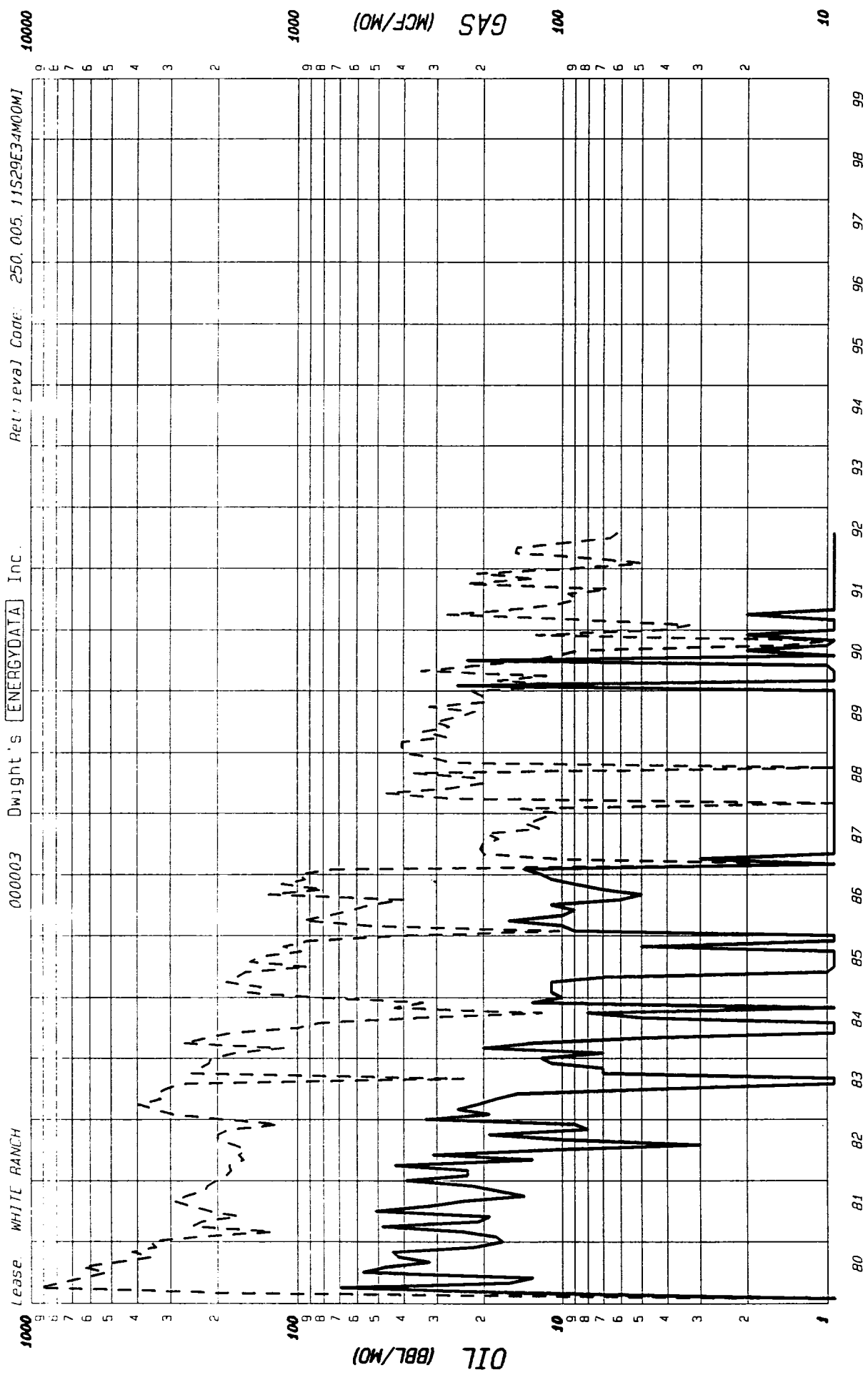
Month	Oil bbls	Cum Oil bbls	Gas mcf	Cum Gas mcf	Water bbls	No.of Wells
Total 1979	584	199260	38415	45173	183	1
Total 1980	402	199662	34032	79205	15	1
Total 1981	224	199886	27592	106797	98	1
Total 1982	142	200028	20762	127559	0	1
Total 1983	86	200114	15890	143449	0	1
Total 1984	83	200197	11038	154487	0	1
Total 1985	46	200243	10654	165141	0	1
Total 1986	115	200358	8211	173352	0	1
Total 1987	17	200375	2124	175476	0	1
Total 1988	0	200375	2509	177985	0	1
January	0	200375	315	178300	0	1
February	0	200375	315	178615	0	1
March	0	200375	216	178831	0	1
April	0	200375	264	179095	0	1
May	0	200375	209	179304	0	1
June	0	200375	239	179543	0	1
July	0	200375	193	179736	0	1
August	0	200375	168	179904	0	1
September	0	200375	248	180152	0	1
October	0	200375	149	180301	0	1
November	0	200375	156	180457	0	1
December	0	200375	172	180629	0	1
Total 1989	0	200375	2644	180629	0	1
January	42	200417	67	180696	0	1
February	0	200417	137	180833	0	1
March	0	200417	89	180922	0	1
April	0	200417	266	181188	0	1
May	0	200417	0	181188	0	1
June	17	200434	103	181291	0	1
July	0	200434	82	181373	0	1
August	15	200449	67	181440	0	1
September	5	200454	11	181451	0	1
October	0	200454	0	181451	0	1
November	12	200466	98	181549	0	1
December	0	200466	32	181581	0	1
Total 1990	91	200466	952	181581	0	1
January	0	200466	26	181607	0	1

Dwight's Energydata, Inc. DLOOK 4.20 Record # 4 Run date: 12/13/92
 Production data from file: D:\PROD-CD\TRAINER. Retrieval code: 250,005,11S29E34L00MI
 Lease: WHITE RANCH Well #: 000002

Month	Oil bbls	Cum Oil bbls	Gas mcf	Cum Gas mcf	Water bbls	No.of Wells
February	0	200466	63	181670	0	1
March	12	200478	212	181882	0	1
April	0	200478	123	182005	0	1
May	0	200478	82	182087	0	1
June	0	200478	68	182155	0	1
July	0	200478	74	182229	0	1
August	0	200478	52	182281	0	1
September	0	200478	182	182463	0	1
October	0	200478	99	182562	0	1
November	0	200478	164	182726	0	1
December	0	200478	71	182797	0	1
Total 1991	12	200478	1216	182797	0	1
January	0	200478	39	182836	0	1
February	0	200478	60	182896	0	1
March	0	200478	117	183013	0	1
April	0	200478	116	183129	0	1
May	0	200478	74	183203	0	1
June	0	200478	51	183254	0	1
July	0	200478	48	183302	0	1
Total 1992	0	200478	505	183302	0	1

Dwight's Energydata, Inc. DLOOK 4.20 Record # 4 Run date: 12/13/92
 Gas test data from file: D:\PROD-CD\TRAINER.D Retrieval code: 250,005,11S29E34L00MI
 Lease: WHITE RANCH Well #: 000002
 Field: WHITE RANCH (MISSISSIPPIAN) MI Reservoir: MISSISSIPPIAN
 Operator: TRAINER C W Gas cum: 183302





County: CHAVES State: NM
 Field: WHITE RANCH (MISSISSIPPIAN) MJ
 Reservoir: MISSISSIPPIAN
 Operator: TRAINER C W
 Oil Cum: 1383 Gas Cum: 186400
 Location: 34M 11S 29E

Dwight's Energydata, Inc. DLOOK 4.20 Record # 5 Run date: 12/13/92
 Property data from file: D:\PROD-CD\TRAINER.D Retrieval code: 250,005,11S29E34M00MI

Operator (#737018)	Lease name	Well #
TRAINER C W	WHITE RANCH	000003

Ident. #	State	Dist	County	Location	Lse/tax /unit #
11S29E34M00MI	NM(30)	2	005 CHAVES	34M 11S 29E	0

API #	Field (#8081124)	Reservoir
30-005-00422	WHITE RANCH (MISSISSIPPIAN)	MI MISSISSIPPIAN

Total Depth	Perforations Upper Lower	Temp Gradient	N-Factor	GOR
0	0 0	0.000	0.000	0

Comp Date	Production Dates First Last	Status Date	Status
0	8002 9207	0	ACT

Cumulative gas MCF	Since FP Date	Gas Gravity	Gas Gatherer
186400	FP Date	0.00	SAG

Cumulative liquid BBL	Since FP Date	Liquid Gravity	Liquid Gatherer
1383	FP Date	0.00	DIA

Dwight's Energydata, Inc. DLOOK 4.20 Record # 5 Run date: 12/13/92
 Gas test data from file: D:\PROD-CD\TRAINER.D Retrieval code: 250,005,11S29E34M00MI
 Lease: WHITE RANCH Well #: 000003

Test Date	Cum at Test	WHSIP	BHP	BHPZ	M/C	Type Pot	bd water	bd cond	whflow	poten	init test
800819	39889	825	0	0		0	0	0	0	0	0
810722	70420	511	0	0		0	0	0	0	0	0
820722	94669	442	0	0		0	0	0	0	0	0
830727	126674	371	0	0		0	0	0	0	0	0
840706	146969	232	0	0		0	0	0	0	0	0
850831	161639	343	0	0		0	0	0	0	0	0
861006	171294	295	0	0		0	0	0	0	0	0
870705	175622	163	0	0		0	0	0	0	0	0
880722	177946	13	0	0		0	0	0	0	0	0
890830	181813	513	0	0		0	0	0	0	0	0
900616	183750	513	0	0		0	0	0	0	0	0
910807	185035	365	0	0		0	0	0	0	0	0

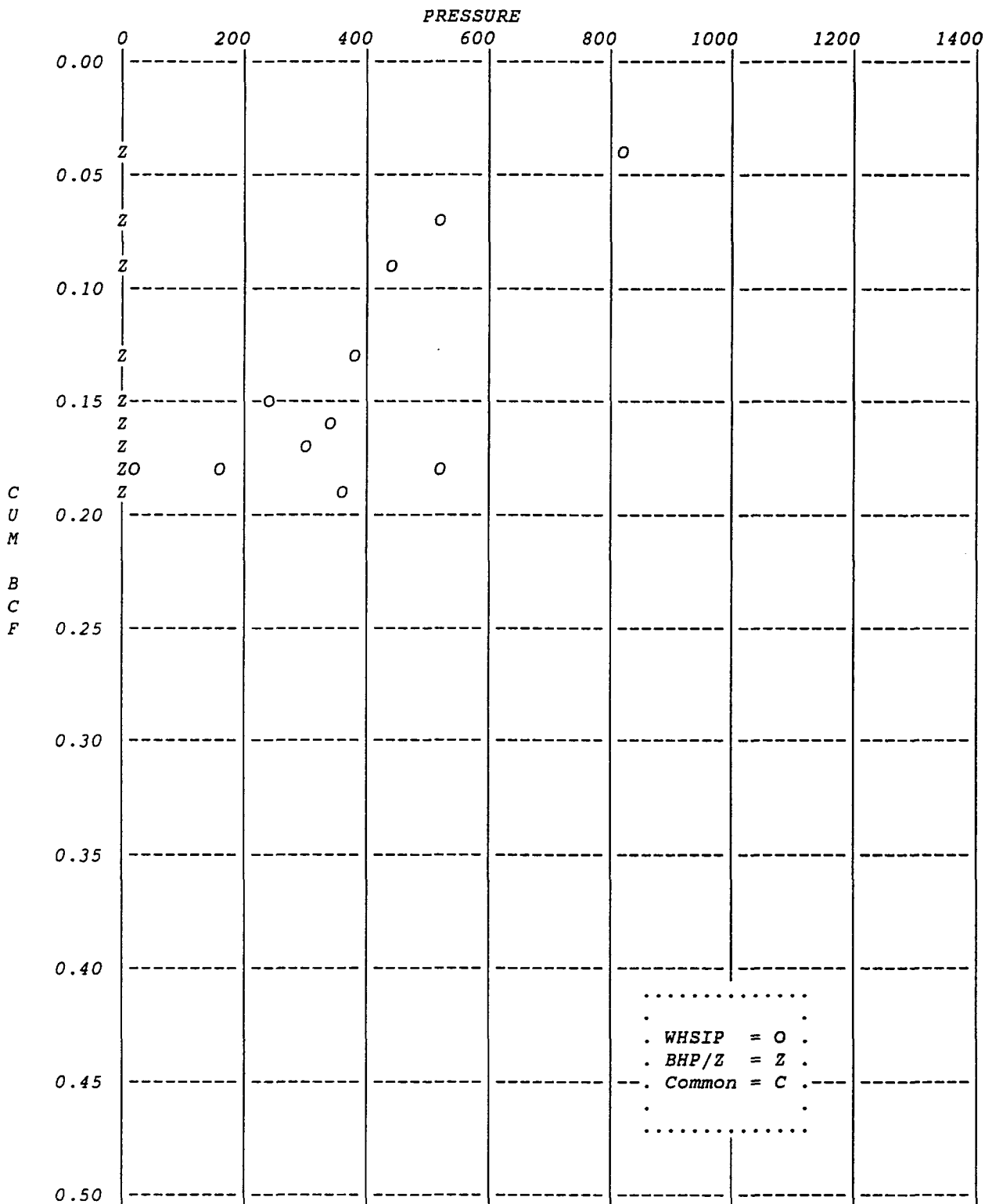
Dwight's Energydata, Inc. DLOOK 4.20 Record # 5 Run date: 12/13/92
 Production data from file: D:\PROD-CD\TRAINER. Retrieval code: 250,005,11S29E34M00MI
 Lease: WHITE RANCH Well #: 000003

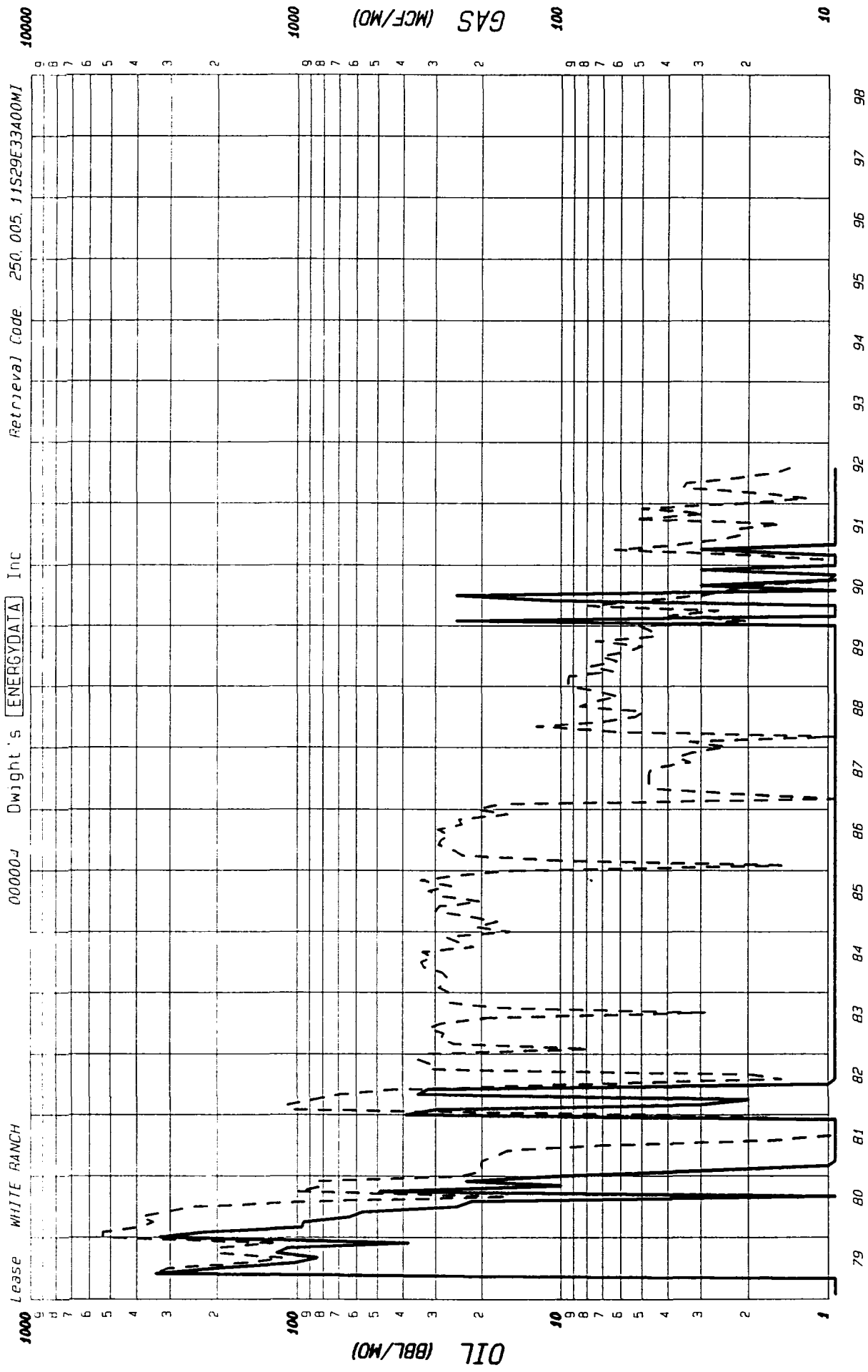
Month	Oil bbls	Cum Oil bbls	Gas mcf	Cum Gas mcf	Water bbls	No.of Wells
Total 1980	373	373	56351	56351	19	1
Total 1981	330	703	26766	83117	8	1
Total 1982	226	929	20922	104039	0	1
Total 1983	139	1068	32273	136312	0	1
Total 1984	81	1149	13432	149744	0	1
Total 1985	46	1195	15295	165039	0	1
Total 1986	115	1310	9103	174142	0	1
Total 1987	17	1327	2308	176450	0	1
Total 1988	0	1327	2897	179347	0	1
January	0	1327	405	179752	0	1
February	0	1327	405	180157	0	1
March	0	1327	277	180434	0	1
April	0	1327	339	180773	0	1
May	0	1327	269	181042	0	1
June	0	1327	307	181349	0	1
July	0	1327	249	181598	0	1
August	0	1327	215	181813	0	1
September	0	1327	319	182132	0	1
October	0	1327	192	182324	0	1
November	0	1327	201	182525	0	1
December	0	1327	221	182746	0	1
Total 1989	0	1327	3399	182746	0	1
January	25	1352	87	182833	0	1
February	0	1352	176	183009	0	1
March	0	1352	115	183124	0	1
April	0	1352	342	183466	0	1
May	1	1353	214	183680	0	1
June	23	1376	132	183812	0	1
July	0	1376	106	183918	0	1
August	2	1378	86	184004	0	1
September	1	1379	14	184018	0	1
October	0	1379	0	184018	0	1
November	2	1381	126	184144	0	1
December	0	1381	42	184186	0	1
Total 1990	54	1381	1440	184186	0	1
January	0	1381	33	184219	0	1
February	0	1381	81	184300	0	1
March	2	1383	273	184573	0	1

Dwight's Energydata, Inc. DLOOK 4.20 Record # 5 Run date: 12/13/92
 Production data from file: D:\PROD-CD\TRAINER. Retrieval code: 250,005,11S29E34M00MI
 Lease: WHITE RANCH Well #: 000003

Month	Oil bbls	Cum Oil bbls	Gas mcf	Cum Gas mcf	Water bbls	No.of Wells
April	0	1383	158	184731	0	1
May	0	1383	106	184837	0	1
June	0	1383	88	184925	0	1
July	0	1383	95	185020	0	1
August	0	1383	66	185086	0	1
September	0	1383	234	185320	0	1
October	0	1383	127	185447	0	1
November	0	1383	211	185658	0	1
December	0	1383	91	185749	0	1
Total 1991	2	1383	1563	185749	0	1
January	0	1383	50	185799	0	1
February	0	1383	77	185876	0	1
March	0	1383	151	186027	0	1
April	0	1383	149	186176	0	1
May	0	1383	96	186272	0	1
June	0	1383	66	186338	0	1
July	0	1383	62	186400	0	1
Total 1992	0	1383	651	186400	0	1

Dwight's Energydata, Inc. DLOOK 4.20 Record # 5 Run date: 12/13/92
 Gas test data from file: D:\PROD-CD\TRAINER.D Retrieval code: 250,005,11S29E34M00MI
 Lease: WHITE RANCH Well #: 000003
 Field: WHITE RANCH (MISSISSIPPIAN) MI Reservoir: MISSISSIPPIAN
 Operator: TRAINER C W Gas cum: 186400





County: CHAVES State: NM
 Field: WHITE RANCH (MISSISSIPPIAN) MI
 Reservoir: MISSISSIPPIAN
 Operator: TRAINER C W
 Oil Cum: 2211 Gas Cum: 67310
 Location: 33A 11S 29E

Dwight's Energydata, Inc. DLOOK 4.20 Record # 2 Run date: 12/13/92
 Property data from file: D:\PROD-CD\TRAINER.D Retrieval code: 250,005,11S29E33A00MI

Operator (#737018)	Lease name	Well #
TRAINER C W	WHITE RANCH	000004

Ident. #	State	Dist	County	Location	Lse/tax /unit #
11S29E33A00MI	NM(30)	2	005 CHAVES	33A 11S 29E	0

API #	Field (#8081124)	MI	Reservoir
30-005-60405	WHITE RANCH (MISSISSIPPIAN)	MI	MISSISSIPPIAN

Total Depth	Perforations Upper Lower	Temp Gradient	N-Factor	GOR
8810	8502 8535	0.000	0.701	0

Comp Date	Production Dates First Last	Status Date	Status
7708	7905 9207	0	ACT

Cumulative gas MCF	Since FP Date	Gas Gravity	Gas Gatherer
67310	FP Date	0.68	SMI

Cumulative liquid BBL	Since FP Date	Liquid Gravity	Liquid Gatherer
2211	FP Date	0.00	DIA

Dwight's Energydata, Inc. DLOOK 4.20 Record # 2 Run date: 12/13/92
 Gas test data from file: D:\PROD-CD\TRAINER.D Retrieval code: 250,005,11S29E33A00MI
 Lease: WHITE RANCH Well #: 000004

Test Date	Cum at Test	WHSIP	BHP	BHPZ	M/C	Type Pot	bd water	bd cond	whflow	poten	init test
770819	0	2341	0	0		1	0	0	0	2073	1
790919	10554	1350	0	0		0	0	0	0	0	0
800819	43083	605	0	0		0	0	0	0	0	0
810722	47038	83	0	0		0	0	0	0	0	0
820722	51365	799	0	0		0	0	0	0	0	0
830727	54392	28	0	0		0	0	0	0	0	0
840706	57267	101	0	0		0	0	0	0	0	0
850831	60754	273	0	0		0	0	0	0	0	0
861006	63784	173	0	0		0	0	0	0	0	0
870705	64691	163	0	0		0	0	0	0	0	0
880722	65280	13	0	0		0	0	0	0	0	0
890830	66250	373	0	0		0	0	0	0	0	0
900616	66696	233	0	0		0	0	0	0	0	0
910807	66993	293	0	0		0	0	0	0	0	0

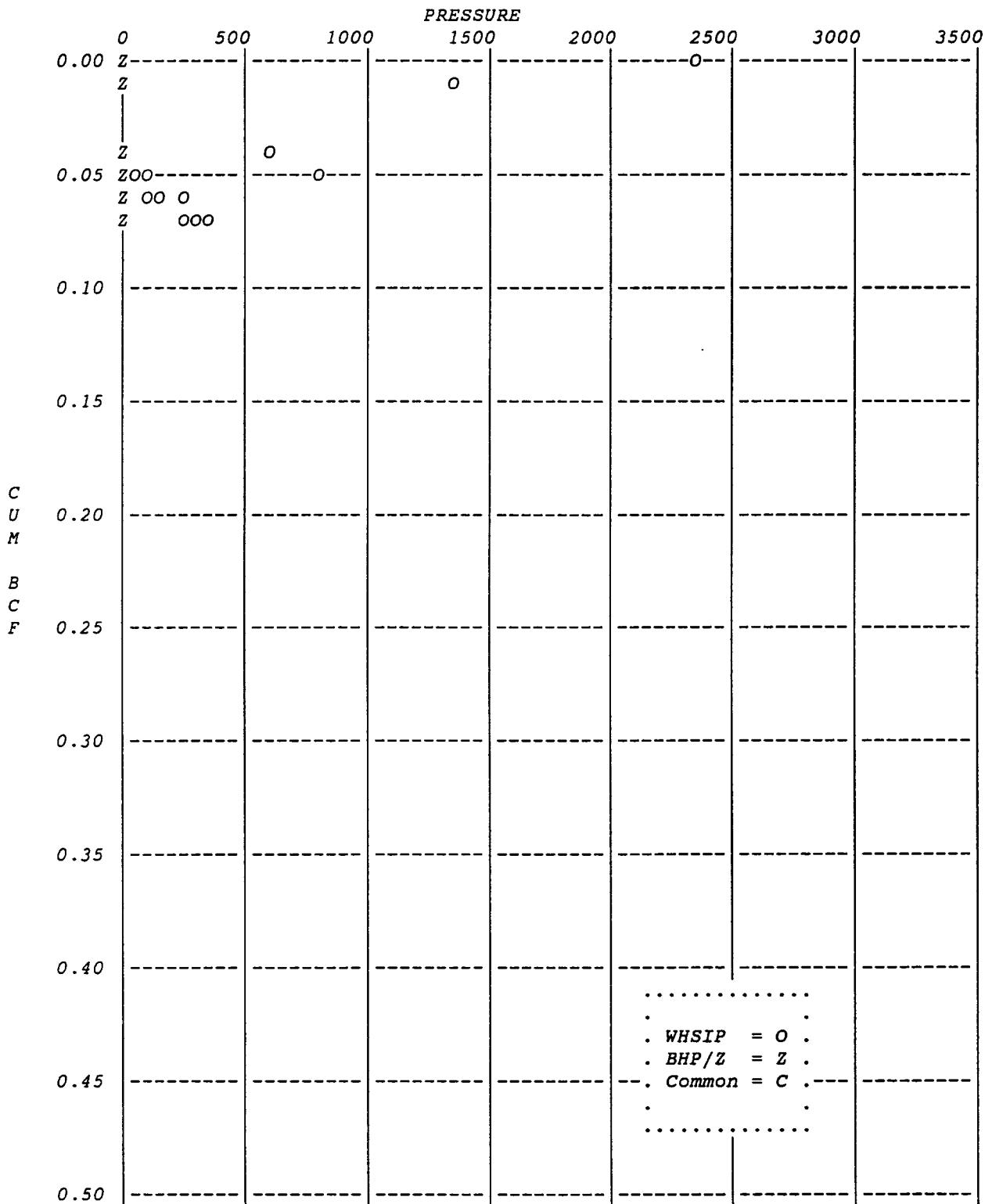
Dwight's Energydata, Inc. DLOOK 4.20 Record # 2 Run date: 12/13/92
 Production data from file: D:\PROD-CD\TRAINER. Retrieval code: 250,005,11S29E33A00MI
 Lease: WHITE RANCH Well #: 000004

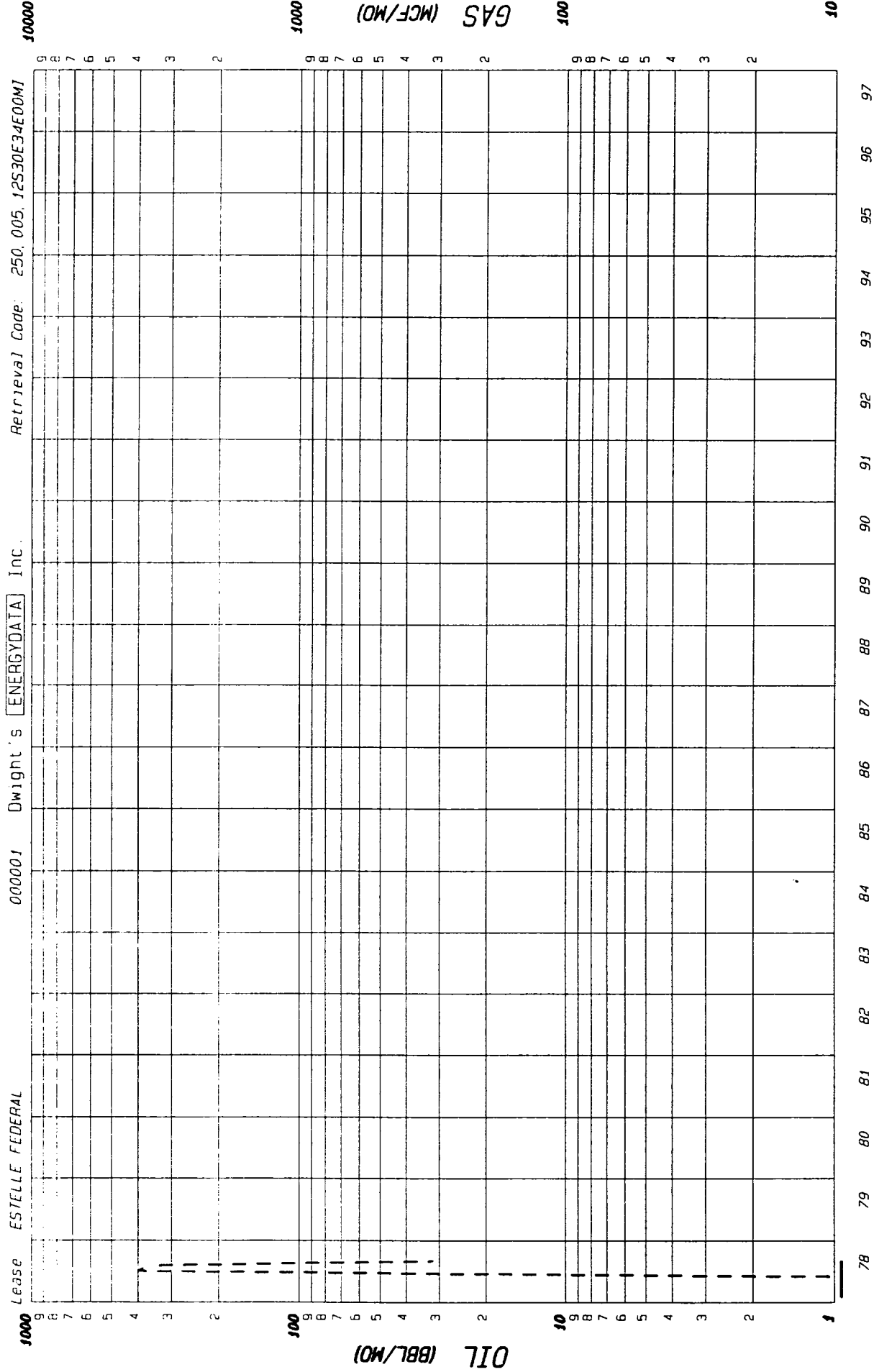
Month	Oil bbls	Cum Oil bbls	Gas mcf	Cum Gas mcf	Water bbls	No.of Wells
Total 1979	1320	1320	19913	19913	1475	1
Total 1980	674	1994	26105	46018	550	1
Total 1981	43	2037	1068	47086	0	1
Total 1982	103	2140	5623	52709	0	1
Total 1983	0	2140	2707	55416	0	1
Total 1984	0	2140	3323	58739	0	1
Total 1985	0	2140	3011	61750	0	1
Total 1986	0	2140	2598	64348	0	1
Total 1987	0	2140	554	64902	0	1
Total 1988	0	2140	779	65681	0	1
January	0	2140	94	65775	0	1
February	0	2140	93	65868	0	1
March	0	2140	64	65932	0	1
April	0	2140	78	66010	0	1
May	0	2140	62	66072	0	1
June	0	2140	71	66143	0	1
July	0	2140	57	66200	0	1
August	0	2140	50	66250	0	1
September	0	2140	74	66324	0	1
October	0	2140	44	66368	0	1
November	0	2140	46	66414	0	1
December	0	2140	51	66465	0	1
Total 1989	0	2140	784	66465	0	1
January	25	2165	20	66485	0	1
February	0	2165	40	66525	0	1
March	0	2165	26	66551	0	1
April	0	2165	79	66630	0	1
May	11	2176	50	66680	0	1
June	25	2201	30	66710	0	1
July	0	2201	24	66734	0	1
August	3	2204	20	66754	0	1
September	1	2205	3	66757	0	1
October	0	2205	0	66757	0	1
November	3	2208	29	66786	0	1
December	0	2208	9	66795	0	1
Total 1990	68	2208	330	66795	0	1
January	0	2208	8	66803	0	1

Dwight's Energydata, Inc. DLOOK 4.20 Record # 2 Run date: 12/13/92
 Production data from file: D:\PROD-CD\TRAINER. Retrieval code: 250,005,11S29E33A00MI
 Lease: WHITE RANCH Well #: 000004

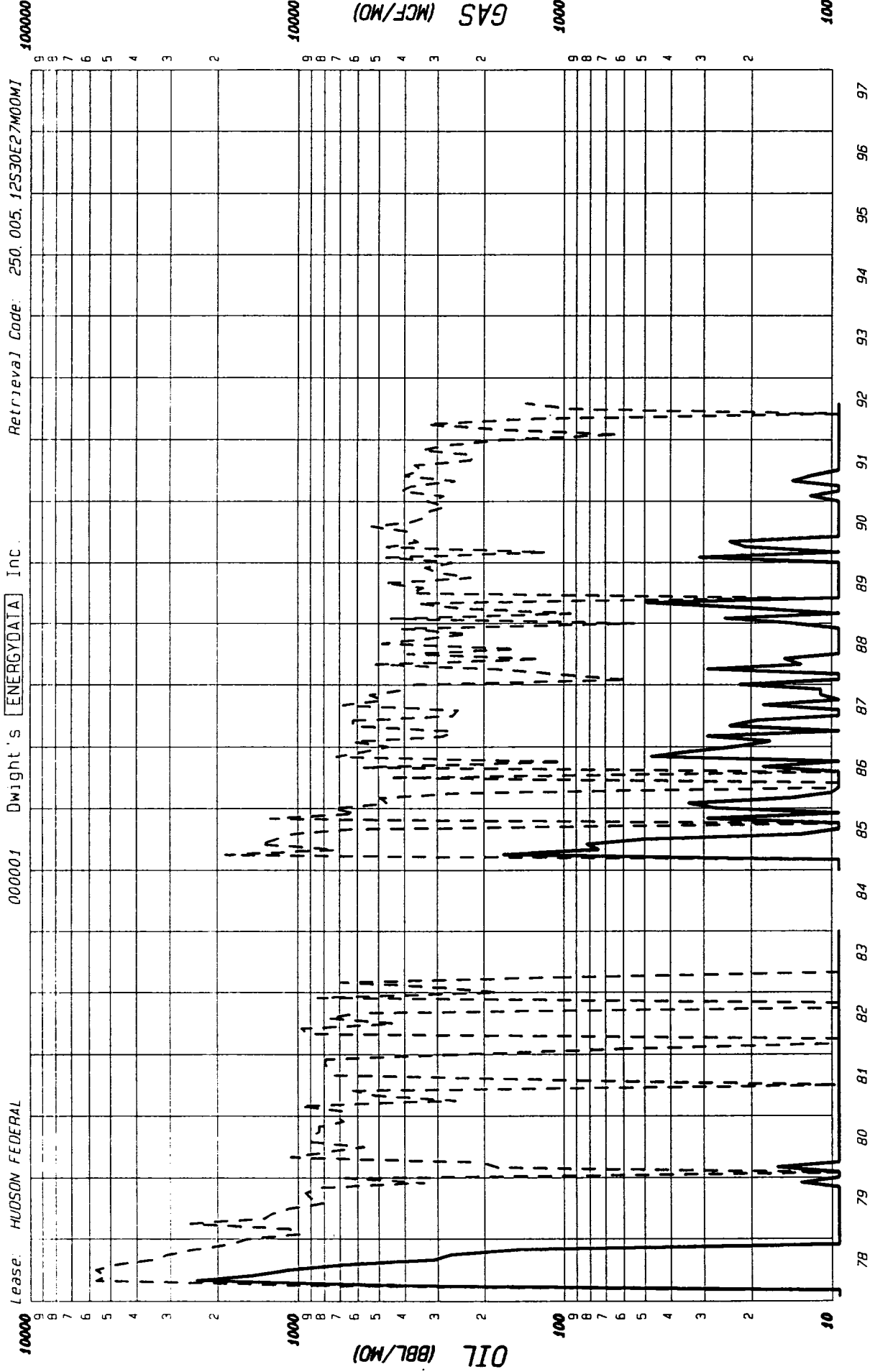
Month	Oil bbls	Cum Oil bbls	Gas mcf	Cum Gas mcf	Water bbls	No.of Wells
February	0	2208	20	66823	0	1
March	3	2211	63	66886	0	1
April	0	2211	36	66922	0	1
May	0	2211	25	66947	0	1
June	0	2211	21	66968	0	1
July	0	2211	22	66990	0	1
August	0	2211	15	67005	0	1
September	0	2211	54	67059	0	1
October	0	2211	29	67088	0	1
November	0	2211	50	67138	0	1
December	0	2211	21	67159	0	1
Total 1991	3	2211	364	67159	0	1
January	0	2211	12	67171	0	1
February	0	2211	18	67189	0	1
March	0	2211	35	67224	0	1
April	0	2211	34	67258	0	1
May	0	2211	22	67280	0	1
June	0	2211	16	67296	0	1
July	0	2211	14	67310	0	1
Total 1992	0	2211	151	67310	0	1

Dwight's Energydata, Inc. DLOOK 4.20 Record # 2 Run date: 12/13/92
 Gas test data from file: D:\PROD-CD\TRAINER.D Retrieval code: 250,005,11S29E33A00MI
 Lease: WHITE RANCH Well #: 000004
 Field: WHITE RANCH (MISSISSIPPIAN) MI Reservoir: MISSISSIPPIAN
 Operator: TRAINER C W Gas cum: 67310

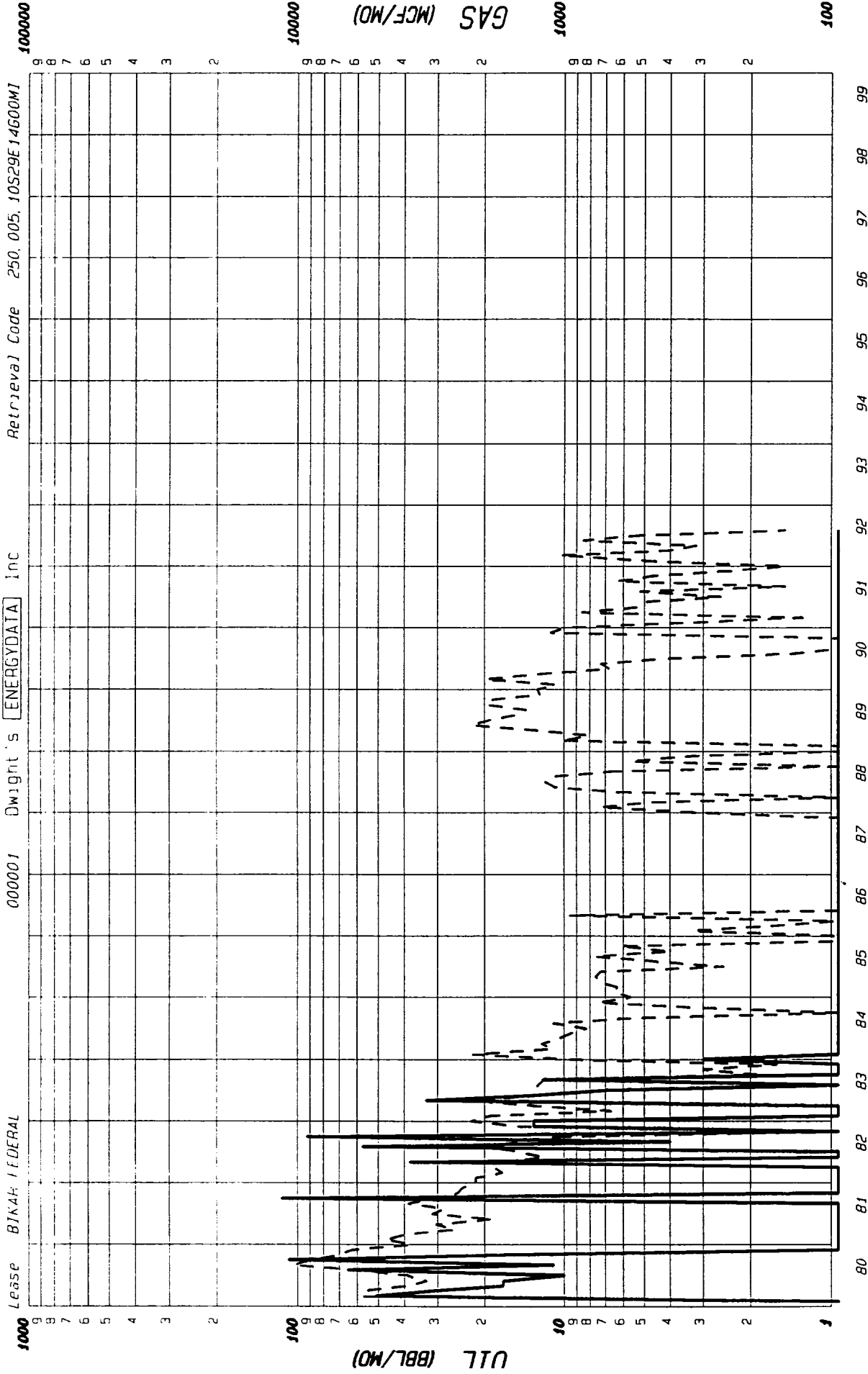




County: CHAVES State: NM
 Field: MESCALERO SANDS (MISS) MI
 Reservoir: MISS
 Operator: PETROLEUM DEV INC
 Oil Cum: 0 Gas Cum: 8004
 Location: 34E 12S 30E

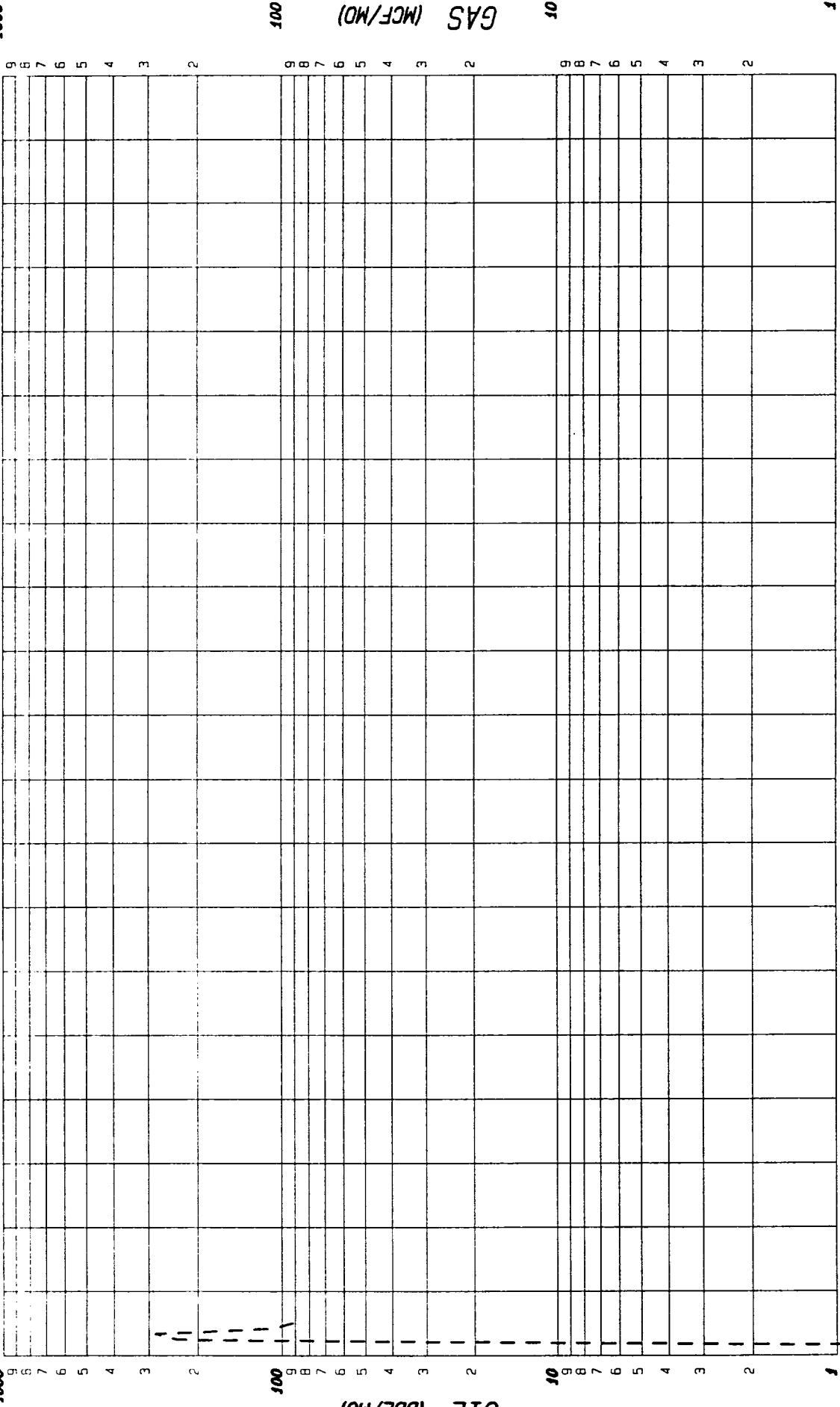


County: CHAVES State: NM
 Field: MESCALERO SANDS (MISS) MI
 Reservoir: MISS
 Operator: PETROLEUM DEV INC
 Oil Cum: 8027 Gas Cum: 1020220
 Location: 27M 12S 30E



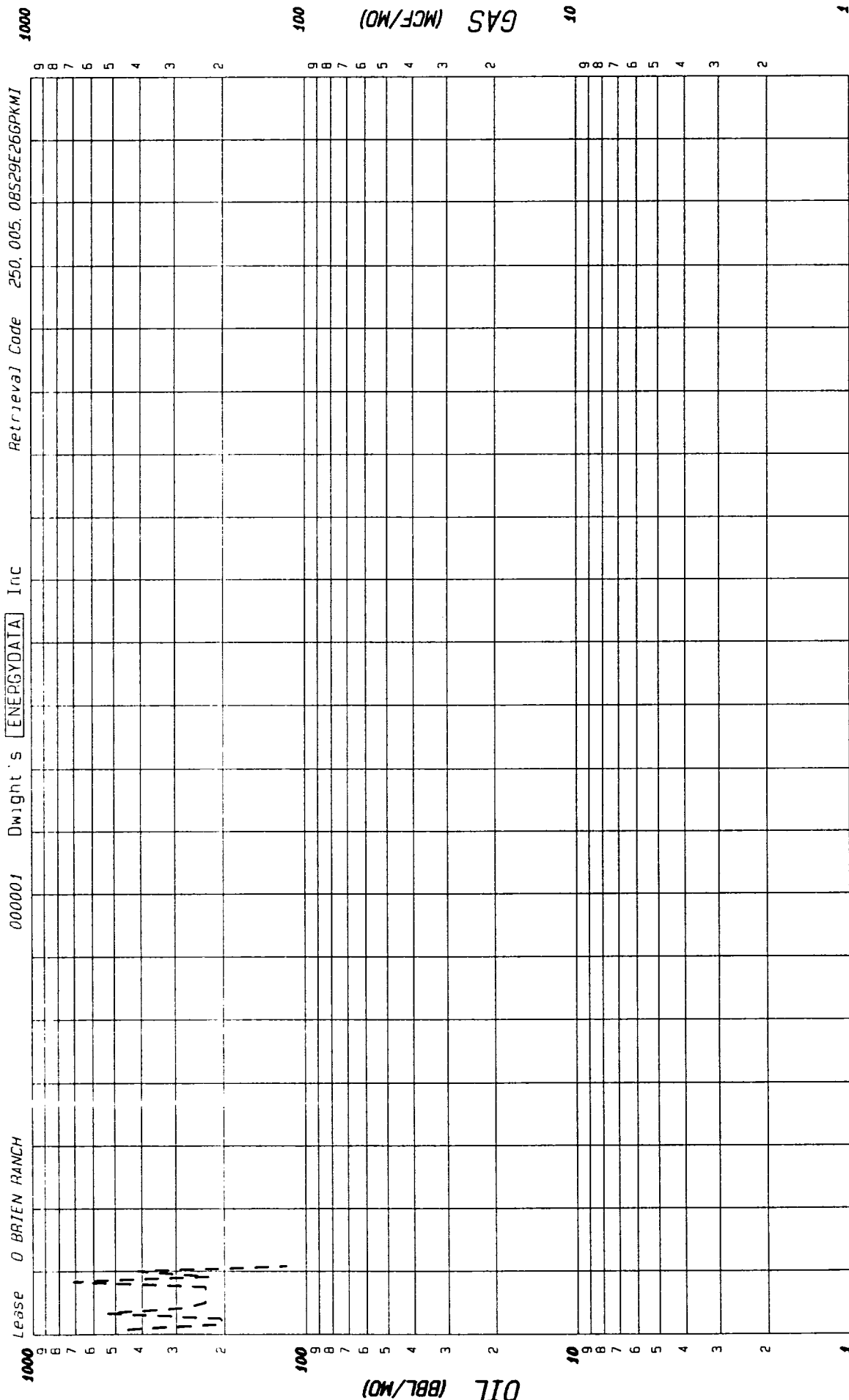
County: CHAVES State: NM
 Field: SAND RANCH (MISSISSIPPIAN) MI
 Reservoir: MISSISSIPPIAN
 Operator: M G F OIL CORP
 Oil Cum: 726 Gas Cum: 191138
 Location: 146 105 29E

Lease WHITWORTH RU STATE 000001 Dwight's ENERGYDATA Inc. Retrieval Code: 250.005.09S26E12H00MI 1000

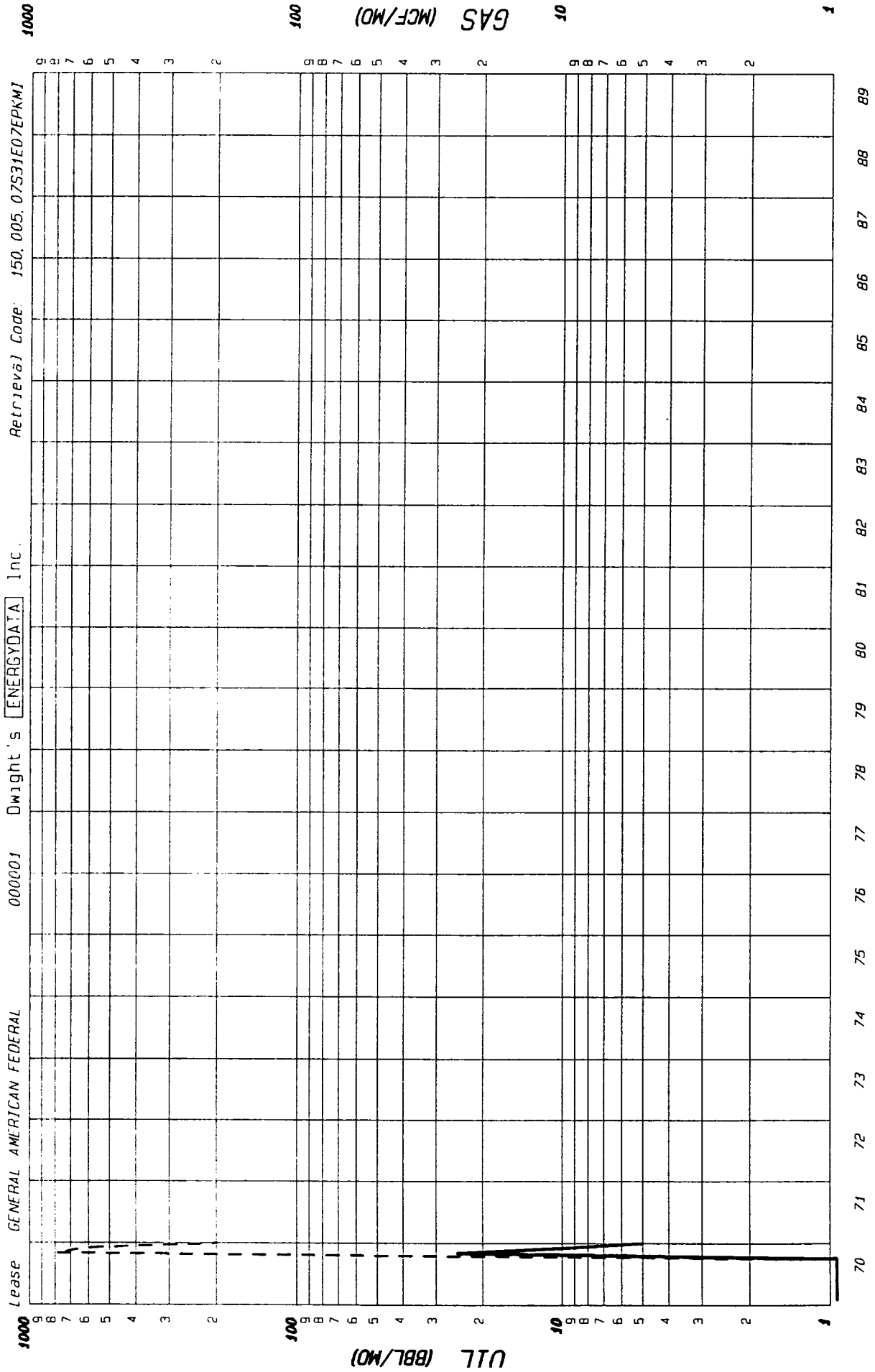


County: CHAVES
Field: CHAVES (MISSISSIPPIAN)
Reservoir: MISSISSIPPIAN
Operator: YATES PETROLEUM CORP
Oil Cum: 0 Gas Cum: 808
Location: 12H 9S 26E

State: NM MI



County: CHAVES State: NM
 Field: CHAVES (MISSISSIPPIAN) MI
 Reservoir: MISSISSIPPIAN
 Operator: AMOCO PRODUCTION CO
 Oil Cum: 0 Gas Cum: 4094
 Location: 266 BS 29E



County: CHAVES
 Field: LONE (MISSISSIPPIAN)
 Reservoir: MISSISSIPPIAN
 Operator: B W P INC
 Oil Cum: 124177 Gas Cum: 57035
 Location: 7E 7S 31E

State: NM
 MI

Date: 12-13-92

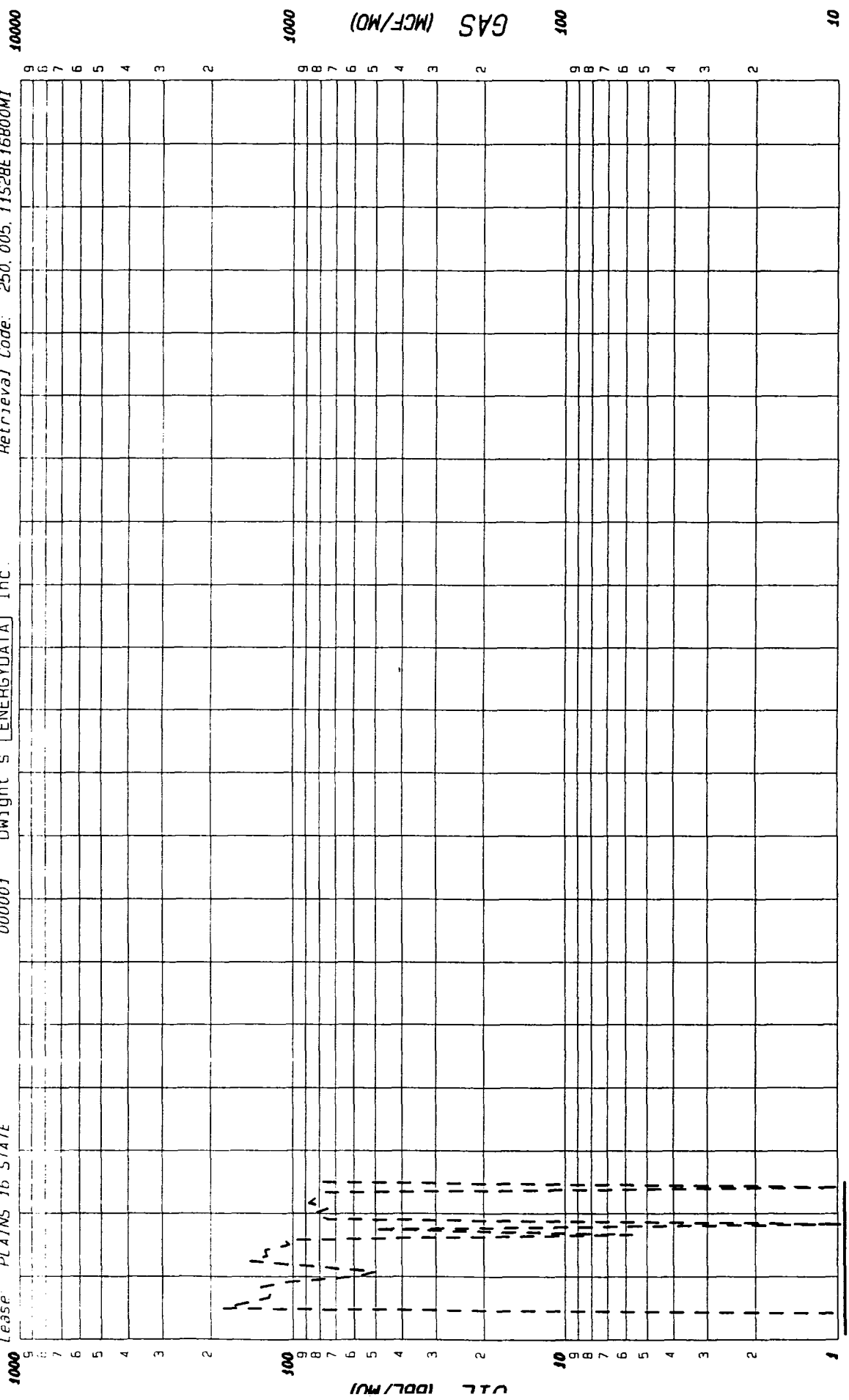
F P Date

Lease: PLAINS 16 STATE

000001

Dwight's ENERGYDATA Inc.

Retrieval Code: 250, 005, 11S28E16800MI



County: CHAVES (MISSISSIPPIAN)
Field: CHAVES (MISSISSIPPIAN)
Reservoir: MISSISSIPPIAN
Operator: POOL FRED DRUG CO INC
Oil Cum: 0 Gas Cum: 22280
Location: 16B 11S 28E

State: NM
MI

MAXIMUM UNSTIMULATED PRODUCTION RATE

AVERAGE DEPTH TO TOP OF FORMATION (IN FEET):		THE MAXIMUM ALLOWABLE PRODUCTION RATE (IN MCF/DAY) MAY NOT EXCEED:
EXCEEDS	BUT DOES NOT EXCEED	
6500	7000	251
7000	7500	290
7500	8000	336
8000	8500	388
8500	9000	449

NO WELL DRILLED INTO THE RECOMMENDED TIGHT FORMATION IS EXPECTED TO PRODUCE, WITHOUT STIMULATION, MORE THAN FIVE BARRELS OF CRUDE OIL PER DAY.

C. W. TRAINER
BEFORE EXAMINER STOGNER
NMOCD CASE NO. 10617
DATE: 12/17/92
EXHIBIT NO. 18

C.W. Trainer

West White Ranch #1

12/11/92: Keltic Services slickline on Location at 1:00 pm to conduct stabilized flow rate and build up. Initial Tubing Pressure 42 psi. Well blew down in 4 minutes 15 seconds. Opened backside, it blew down in 15 seconds. RIH for static bottom hole pressure survey. Survey showed bottom hole pressure at 205.25 psi Estimated top of fluid at 7,048' from surface, pressure gradient indicates fluid in well is condensate. Well built up approximately 10 psi in 30 minutes while running survey.

Est Daily Cost \$500

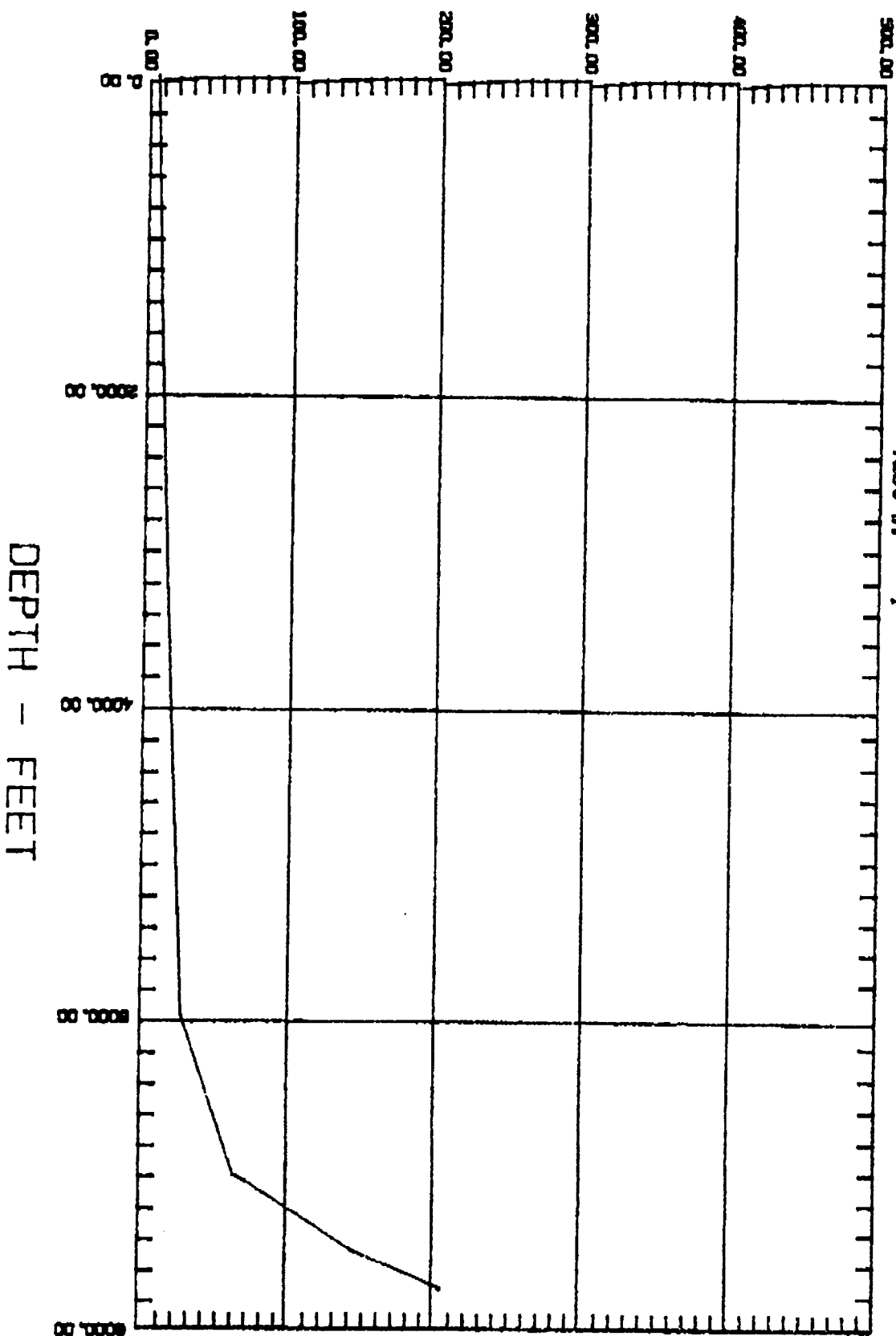
C. W. TRAINER
BEFORE EXAMINER STOGNER
NMOCD CASE NO. 10617
DATE: 12/17/92
EXHIBIT NO. 19

PRESSURE - PSIG

Plot starting date 12/11/92
time 15:15:00
Gauge S/N 17341

Company KELLIC SERVICES
Client C. W. TRAINER
Well name WEST WHITE RANCH
Well # #1
Test # 1

Location N/A
Operator LARRY MOSSBARGER
Comments SURFACE PRESS - TLM



ECONOMIC ANALYSIS

BY performing a volumetric analysis of the Mississippian formation in the White Ranch # 4, calculations indicate this well is not effectively draining 40 acres. Calculation indicate 779 MMCFG was originally in place, with only 10 % of the gas expected to be recovered. The average recovery for the four wells in the White Ranch Field is only 200 MMCFG, or approximately 25% of the gas in place.

To increase the ultimate recoveries, the Mississippian needs to be stimulated with larger volumes of fluid and more efficient fluids like Gelled Acid. By increasing the fluid efficiency and extending the drainage radius, ultimate recoveries should increase by 50% or better, to over 300 MMCFG.

The cost to reenter, stimulate and equip a Mississippian well is estimated at \$187,000.

With gas prices at \$1.50 per MMBTU, the 1132 BTU per MCF gas would sell for \$1.70. Running economics at \$1.70 per Mcf and \$2000 per month operating cost and a projected ultimate recovery of 322 MMCFG, yields a 18.99 % return on the \$187,000 investment, with a payout in 2.81 years. These economics are marginal and will not justify the risk to develop this resource.

Economics are enhanced by the addition of the tax credit, as can be seen in the after tax case. Rate of return on the investment of \$187,000 is 58.28 % and a 1.66 year payout. These economics are much more favorable and will support the risk involved with developing this resource.

Economic runs and the volumetric analysis work sheet are attached.

C. W. TRAINER
BEFORE EXAMINER STOGNER
NMOCD CASE NO. 10617
DATE: 12/17/92
EXHIBIT NO. 20

***** WELL NO.:WHITE RANCH #4
 * VOLUMETRIC ANALYSIS * LOCATION:SEC 34-T11S-R29E
 * OIL & GAS RESERVOIRS * OPERATOR:C.W. TRAINER
 ***** FIELD :WHITE RANCH MISS.
 OIL OR GAS RESERVOIR ? 2
 OIL=1,GAS=2 ^^^^^^^^^

-DATA-						

INTERVAL	HN	POROSITY	SW	RECOVERY	RESERVES	RESERVES
NO.	FT.	%	%	FACTOR %	MCF	BO
*****	*****	*****	*****	*****	*****	*****
1	44.00	7.15	40.00	50.00	389637	0
2					0	0
3					0	0
4					0	0
5					0	0
6					0	0
7					0	0
8					0	0
9					0	0
10					0	0
TOTAL	44.00	*	*	*	389637	0
AVERAGE	*	7.15	40.00	50.00	*	*

GAS GRAVITY : 0.68
 GAS FORMATION VOLUME FACTOR INITIAL Bg : 0.0037
 FORMATION PRESSURE INITIAL PSI : 3720
 GAS FORMATION VOLUME FACTOR FINAL Bg : 0.03
 FORMATION PRESSURE FINAL PSI : 500
 DRAINAGE AREA ACRES : 40
 BOTTOM HOLE TEMPERATURE F : 135

FILE NAME: TRAINER (1)

D A T A R E P O R T

DATE: 12/16/92

TIME: 07:31.56

CASE NAME: WHITERANCH

CMD NAME: ogre (130)

101 WHITE RANCH #1

102 NE/NE SEC 1-T12S-R28E

103 MISSISSIPPIAN RECOMPLETION

104 CHAVES COUNTY NEW MEXICO

117 CASE \$CASE

* 107 PREPARED FOR

* 108 C.W. TRAINER

* 120 12 92 12 12 1 92 10 1

	W.I. FRACTION	OP. COST (\$/W/MO)	OP. COST (\$/MO.)	ADV. TAX (PCT)	MAJOR PH. NAME	PROD DATE (MO/DY/YR)
210	1.00000000	2000.00	.00	1.400	GAS	12/ 1/92

	PHASE NAME	CUM PROD (MUNITS)	REV. INT FRACTION	PRICE (\$/UNIT)	SEV. TAX (PCT)	NO. OF WELLS	RATIO TO MAJOR PH
221	OIL	.000	.80449220	20.000	8.040	.0	
222	GAS	.000	.80449220	1.700	8.040	1.0	

	PH. NAME	CURVE TP	DECLINE%	Q1 RATE	QT RATE	CUM. LIMIT	(M OR Y)	CALC VALUE
410	OIL	EXP	50.000	3.000	.200	X X	D	
CALC	OIL	EXP	END= 50.000	3.000	.200	3.907 YRS	D	1.474 MBBL
411	GAS	EXP	20.000	250.000	EL	X X	D	
CALC	GAS	EXP	END= 20.000	250.000	53.024	6.949 YRS	D	322.197 MMCF

600 SERIES LINES:

610 DATA SEC29CR : 40*3

	INV NAME	INV. POINT	(G OR N)	TANG-M\$	INTANG-M\$	LSEHLD-M\$	RISK FRAC	OVHD FLAG
802	INVEST	.000 YRS	G	73.000	114.000	.000		

WHITE RANCH #1
NE/NE SEC 1-T12S-R28E
MISSISSIPPIAN RECOMPLETION
CHAVES COUNTY NEW MEXICO

DATE: 12/16/92
TIME: 07:31.56
FILE: TRAINER
GET#: 1

R E S E R V E S A N D E C O N O M I C S

PREPARED FOR
C.W. TRAINER

AS OF DECEMBER 1, 1992

-END- MO-YR	---GROSS PRODUCTION---		---NET PRODUCTION---		---PRICES---		NO. OF WELLS	-----OPERATIONS, M\$-----			
	OIL, MMBL	GAS, MMCF	OIL, MMBL	GAS, MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	OTHER REVENUE	TOTAL REVENUE
12-92	.089	7.534	.072	6.061	20.00	1.70	1.0	1.440	10.304	.000	11.744
12-93	.745	80.279	.599	64.584	20.00	1.70	1.0	11.980	109.793	.000	121.773
12-94	.373	64.223	.300	51.667	20.00	1.70	1.0	6.000	87.834	.000	93.834
12-95	.186	51.379	.150	41.334	20.00	1.70	1.0	3.000	70.268	.000	73.268
12-96	.081	41.103	.065	33.067	20.00	1.70	1.0	1.300	56.214	.000	57.514
12-97	.000	32.882	.000	26.453	20.00	1.70	1.0	.000	44.970	.000	44.970
12-98	.000	26.306	.000	21.163	20.00	1.70	1.0	.000	35.977	.000	35.977
12-99	.000	18.491	.000	14.876	20.00	1.70	1.0	.000	25.289	.000	25.289
12- 0											
12- 1											
12- 2											
12- 3											
12- 4											
12- 5											
12- 6											
S TOT	1.474	322.197	1.186	259.205	20.00	1.70	.0	23.720	440.649	.000	464.369
REM.	.000	.000	.000	.000	.00	.00	.0	.000	.000	.000	.000
TOTAL	1.474	322.197	1.186	259.205	20.00	1.70	.0	23.720	440.649	.000	464.369
-END- MO-YR	-----OPERATIONS, M\$-----				-----CAPITAL COSTS, M\$-----				CASH FLOW BTAX, M\$	10.00 PCT CUM. DISC BTAX, M\$	
	SEVERANCE TAXES	AD VAL TAXES	NET OPER EXPENSES	OPERATIONS CASH FLOW	TANGIBLE COSTS	INTANG. COSTS	LEASEHOLD COSTS	SALVAGE VALUE			
12-92	.944	.151	2.000	8.649	73.000	114.000	.000	.000	-178.351	-178.385	
12-93	9.790	1.568	24.000	86.415	.000	.000	.000	.000	86.415	-96.612	
12-94	7.544	1.208	24.000	61.082	.000	.000	.000	.000	61.082	-44.066	
12-95	5.891	.943	24.000	42.434	.000	.000	.000	.000	42.434	-10.881	
12-96	4.625	.740	24.000	28.149	.000	.000	.000	.000	28.149	9.132	
12-97	3.616	.579	24.000	16.775	.000	.000	.000	.000	16.775	19.974	
12-98	2.893	.463	24.000	8.621	.000	.000	.000	.000	8.621	25.039	
12-99	2.033	.326	20.786	2.144	.000	.000	.000	.000	2.144	26.191	
12- 0											
12- 1											
12- 2											
12- 3											
12- 4											
12- 5											
12- 6											
S TOT	37.336	5.978	166.786	254.269	73.000	114.000	.000	.000	67.269	26.191	
REM.	.000	.000	.000	.000	.000	.000	.000	.000	.000	26.191	
TOTAL	37.336	5.978	166.786	254.269	73.000	114.000	.000	.000	67.269	26.191	

WHITE RANCH #1
NE/NE SEC 1-T12S-R28E
MISSISSIPPIAN RECOMPLETION
CHAVES COUNTY NEW MEXICO

DATE: 12/16/92
TIME: 07:31.56
FILE: TRAINER
GET#: 1

A F T E R T A X E C O N O M I C S

PREPARED FOR
C.W. TRAINER

AS OF DECEMBER 1, 1992

-END- MO-YR	OPER CASH FLOW, M\$	DEPR. EXP., M\$	DEPL. EXP., M\$	INTANG. EXP., M\$	INTEREST EXP., M\$	TAXABLE INCOME M\$	TAX CREDIT M\$	TAXES PAYABLE M\$	CASH FLOW ATAX, M\$	10.00 PCT CUM. DISC ATAX, M\$
12-92	8.649	1.779	.000	114.000	.000	-107.130	3.247	-39.671	-138.681	-138.872
12-93	86.415	18.689	.000	.000	.000	67.726	34.089	-11.062	97.477	-46.632
12-94	61.082	14.655	.000	.000	.000	46.427	26.734	-10.949	72.031	15.332
12-95	42.434	11.576	.000	.000	.000	30.858	21.117	-10.625	53.059	56.827
12-96	28.149	9.171	.000	.000	.000	18.978	16.729	-10.276	38.425	84.145
12-97	16.775	7.252	.000	.000	.000	9.523	13.227	-9.989	26.764	101.443
12-98	8.621	5.800	.000	.000	.000	2.821	10.582	-9.623	18.244	112.162
12-99	2.144	4.078	.000	.000	.000	-1.934	7.438	-8.096	10.240	117.666
12- 0										
12- 1										
12- 2										
12- 3										
12- 4										
12- 5										
12- 6										
S TOT	254.269	73.000	.000	114.000	.000	67.269	133.161	-110.289	177.558	117.666
REM.	.000	.000	.000	.000	.000	.000	.000	.000	.000	117.666
TOTAL	254.269	73.000	.000	114.000	.000	67.269	133.161	-110.289	177.558	117.666

-----PRESENT WORTH PROFILE-----			
BTAX RATE OF RETURN (PCT)	18.99	ATAX RATE OF RETURN (PCT)	58.28
BTAX PAYOUT YEARS	2.81	ATAX PAYOUT YEARS	1.66
BTAX PAYOUT YEARS (DISC)	3.63	ATAX PAYOUT YEARS (DISC)	1.84
BTAX NET INCOME/INVEST	1.36	ATAX NET INCOME/INVEST	1.95
BTAX NET INCOME/INVEST (DISC)	1.14	ATAX NET INCOME/INVEST (DISC)	1.63
			2.0 67.269 177.560
			5.0 57.726 163.430
			10.0 44.767 144.448
PRODUCTION START DATE	12/ 1/92	PROJECT LIFE (YEARS)	6.95 8.0 33.215 127.733
MONTHS IN FIRST LINE	1.00	DISCOUNT RATE (PCT)	10.00 10.0 26.191 117.666
GROSS WELLS	1.00	PRIOR DEPL. BASIS (M\$)	.000 12.0 19.649 108.360
		PRIOR DEPR. BASIS (M\$)	.000 15.0 10.644 95.654
			18.0 2.490 84.262
MAX. OIL PRICE (\$/B)	20.00	MAX. GAS PRICE (\$/M)	1.70 20.0 -2.527 77.304
GROSS OIL WELLS	.00	GROSS GAS WELLS	1.00 25.0 -13.810 61.808
			30.0 -23.571 48.579
CUMULATIVE OIL (MGBL)	.000	CUMULATIVE GAS (MMCF)	.000 35.0 -32.089 37.165
REMAINING OIL (MGBL)	1.474	REMAINING GAS (MMCF)	322.197 40.0 -39.583 27.227
ULTIMATE OIL (MGBL)	1.474	ULTIMATE GAS (MMCF)	322.197 45.0 -46.222 18.503
			50.0 -52.141 10.787
			60.0 -62.243 -2.240
			70.0 -70.541 -12.810
INITIAL W.I. FRACTION	1.00000000	FINAL W.I. FRACTION	1.00000000 80.0 -77.478 -21.560
INITIAL NET OIL FRACTION	.80449220	FINAL NET OIL FRACTION	.80449220 90.0 -83.365 -28.927
INITIAL NET GAS FRACTION	.80449220	FINAL NET GAS FRACTION	.80449220 100.0 -88.425 -35.219