

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name PINKERTON "A" #19 AFT Test No. 1 Date 9/8/92
Company OXY USA, INC. Zone REAGAN
Address 110 S MAIN WICHITA KS 67202 Elevation 2202
Co. Rep./Geo. STEVE DAVIS Cont. ABERCROMBIE RIG #4 Est. Ft. of Pay _____
Location: Sec. 31 Twp. 5S Rge. 20W Co. PHILLIPS State KS

Interval Tested 3614-3620 Drill Pipe Size 4.5" XH
Anchor Length 6 Wt. Pipe I.D. - 2.7 Ft. Run 569
Top Packer Depth 3609 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3614 Mud Wt. 9.7 lb/Gal.
Total Depth 3620 Viscosity 51 Filtrate 9.6

Tool Open @ 7:29 PM Initial Blow STRONG BLOW-BOTTOM OF BUCKET IN 8.5 MINUTES

Final Blow STRONG BLOW- BOTTOM OF BUCKET IN 8 MINUTES

Recovery - Total Feet 650 Flush Tool? NO

Rec. 836 Feet of GAS IN PIPE
Rec. 588 Feet of CLEAN GASSY OIL-10%GAS/90%OIL
Rec. 62 Feet of OIL CUT MUDDY WATER-5%OIL/85%WTR/10%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 114 °F Gravity _____ °API @ _____ °F Corrected Gravity 32 °API
RW 0.09 @ 87 °F Chlorides 28000 ppm Recovery Chlorides 1200 ppm System

(A) Initial Hydrostatic Mud 1922.3 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 58.7 PSI @ (depth) 3601 w / Clock No. 8376

(C) First Final Flow Pressure 111.9 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 753.9 PSI @ (depth) 3616 w / Clock No. 27567

(E) Second Initial Flow Pressure 161.7 PSI AK1 Recorder No. _____ Range _____

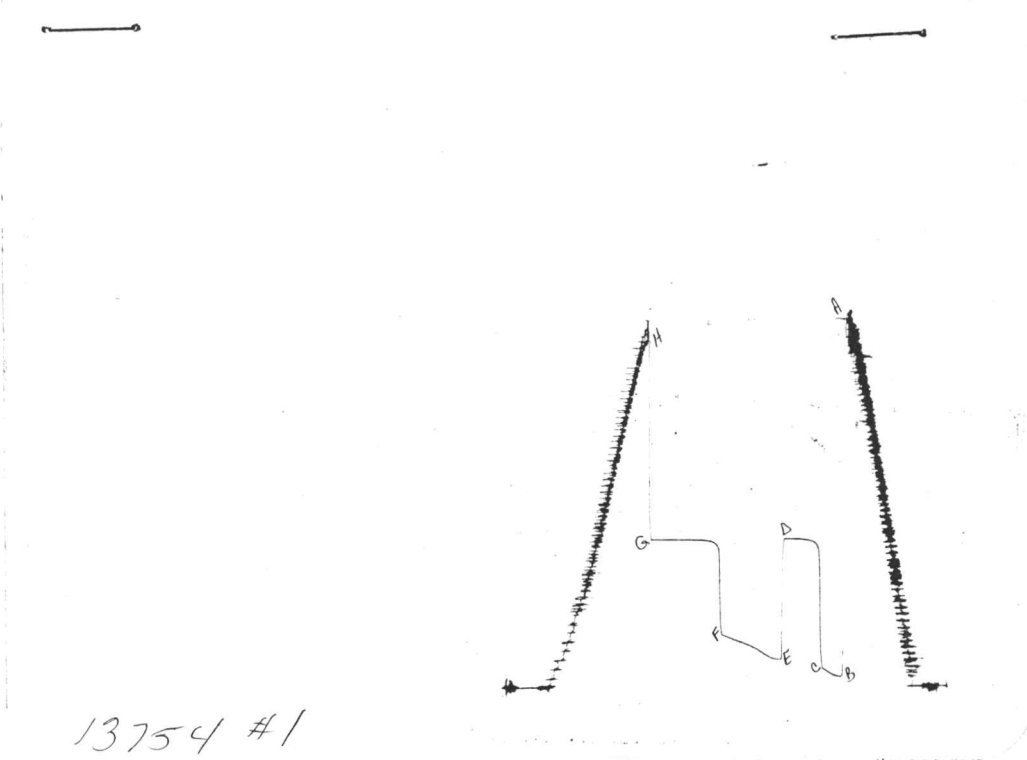
(F) Second Final Flow Pressure 264.8 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 766.8 PSI Initial Opening 15 Final Flow 45

(H) Final Hydrostatic Mud 1871.3 PSI Initial Shut-in 30 Final Shut-in 60

Our Representative DAN BANGLE

CHART PAGE



13754 #1

This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1916	1922.3
(B) FIRST INITIAL FLOW PRESSURE	49	58.7
(C) FIRST FINAL FLOW PRESSURE	98	111.9
(D) INITIAL CLOSED-IN PRESSURE	758	753.9
(E) SECOND INITIAL FLOW PRESSURE	147	161.7
(F) SECOND FINAL FLOW PRESSURE	265	264.8
(G) FINAL CLOSED-IN PRESSURE	739	766.8
(H) FINAL HYDROSTATIC MUD	1866	1871.3

CALCULATED RECOVERY ANALYSIS

DST #

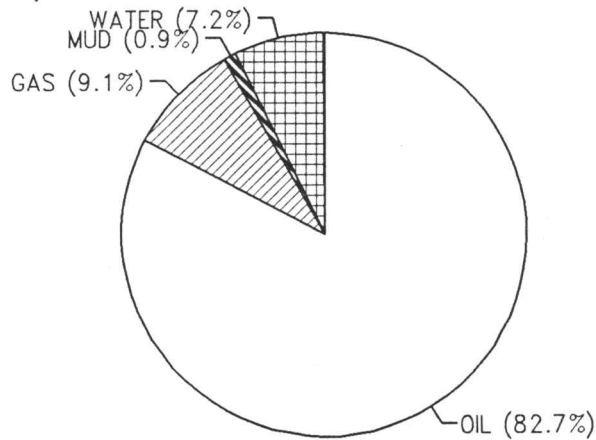
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TICKET #

5408

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	81	10	8.1	90	72.9	0	0	0	0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT 1	507	10	50.7	90	456.3	0	0	0	0
PIPE 2	62	0	0	5	3.1	85	52.7	10	6.2
3			0		0		0		0
4			0		0		0		0
DRILL 1			0		0		0		0
COLLAR 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	650		58.8		532.3		52.7		6.2

		HRS OPEN	BBL/DAY
BBL OIL=	4.252438	*	1 102.05851
BBL WATER=	0.3689	*	8.8536
BBL MUD=	0.04836		
BBL GAS =	0.470082		



INITIAL SHUT IN TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE
0.5	699.2	1.785	699.2
2.1	732.5	1.184	33.3
4.7	744.7	0.868	12.2
7.4	744.7	0.704	0.0
11.9	745.8	0.547	1.1
15.4	748.0	0.470	2.2
18.6	750.2	0.417	2.2
21.9	753.5	0.375	3.3
27.3	753.9	0.322	0.4

FINAL SHUT IN TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE
2.8	672.6	1.069	672.6
3.1	690.4	1.028	17.8
3.3	724.7	1.004	34.3
5.5	731.4	0.810	6.7
8.9	735.8	0.641	4.4
13.6	744.7	0.506	8.9
18.9	754.6	0.413	9.9
23.6	758.0	0.356	3.4
30.4	762.4	0.298	4.4
35.5	766.8	0.266	4.4
45.3	766.8	0.221	0.0
51.4	766.8	0.200	0.0
56.6	766.8	0.185	0.0

INITIAL FLOW		Log	<>
TIME(MIN)	Pws (psi)	Horn T	PRESSURE
0.2	58.7	2.179	58.7
6.8	80.8	0.733	22.1
11.5	97.5	0.557	16.7
13.4	111.9	0.510	14.4

FINAL FLOW		Log	<>
TIME(MIN)	Pws (psi)	Horn T	PRESSURE
1.5	161.7	1.322	161.7
6.4	156.2	0.755	-5.5
13.5	179.5	0.508	23.3
18.7	200.5	0.416	21.0
32.6	241.5	0.283	41.0
45.4	264.8	0.220	23.3

.2898551	58.73392	1
6.811594	80.89766	1
11.5942	97.52047	1
13.47826	111.9269	1
14.34783	262.6404	2
15.50725	699.2661	2
15.50725	707.0234	2
17.10145	732.5117	2
19.71014	744.7018	2
22.46377	744.7018	2
26.95652	745.8099	2
30.43478	748.0263	2
33.62319	750.2427	2
36.95652	753.5673	2
42.31884	753.5673	2
46.52174	161.7953	3
51.44928	156.2544	3
58.55072	179.5263	3
63.76812	200.5819	3
77.68116	241.5848	3
90.43478	264.8567	3
91.15942	332.4562	3
92.89855	672.6696	4
93.18841	690.4006	4
93.33334	724.7544	4
95.50725	731.4035	4
98.9855	735.8362	4
103.6232	744.7018	4
108.9855	754.6754	4
113.6232	758	4
120.4348	762.4327	4
125.5072	766.8655	4
135.3623	766.8655	4
141.4493	766.8655	4
146.6667	766.8655	4