

10,421-10,480 (ZONE 1 W/SLIP) 11-1-67

Flow Time	1st Min. 20	2nd Min. 120	Date	11-1-67	Ticket Number	460688 - S
Closed In Press. Time	1st Min. 95	2nd Min. 180	Kind of Job	OPEN HOLE	Halliburton District	LOVINGTON
Pressure Readings	Field	Office Corrected	Tester	MR. CASTELLOW	Witness	MR. RICKEY
Depth Top Gauge	10,478	NO Blanked Off	Drilling Contractor	MORAN OIL PROD. & DRILLING CORPORATION		
ST. P.R.D. No.	1516	12 Hour Clock	Elevation	4057' K.B.	Top Packer	10,422'
Initial Hydro Mud Pressure	4805	4935 4881	Total Depth	10,480'	Bottom Packer	10,429'
Initial Closed in Pres.	3865	3978 3921	Interval Tested	10,429'-10,480'	Formation Tested	PERMO PENNSYLVANIA
Initial Flow Pres.	-	1 2570 2627	Casing or Hole Size	7 7/8"	Casing Perfs. Top	-
Final Flow Pres.	-	1 3712 3760	Surface Choke	1" ADJUSTABLE	Bottom Choke	3/4"
Final Closed in Pres.	3865	3964	Size & Kind Drill Pipe	4" H-90	Drill Collars Above Tester	I.D. - LENGTH 2.50" x 420'
Final Hydro Mud Pressure	4760	4895 4834	Mud Weight	9.1	Mud Viscosity	36
Depth Cen. Gauge	Ft.	Blanked Off	Temperature	162	Anchor Size ID & Length	2.50" ID 5 3/4" X 51'
BT. P.R.D. No.		Hour Clock	Depths Mea. From	ROTARY TABLE	Depth of Tester Valve	10,400' Ft.
Initial Hydro Mud Pres.			TYPE	AMOUNT	Depth Back Pres. Valve	Ft.
Initial Closed in Pres.			Cushion	1000' WATER		
Initial Flow Pres.			Recovered	1000	Feet of Water cushion	
Final Flow Pres.			Recovered	3 BBLs.	Feet of Drilling mud	
Final Closed in Pres.			Recovered	4 BBLs.	Feet of Oil & gas cut mud	
Final Hydro Mud Pres.			Recovered	85 BBLs.	Feet of Oil	
Depth Bot. Gauge	10,478	YES Blanked Off	Oil A.P.I. Gravity	-	Water Spec. Gravity	-
ST. P.R.D. No.	1496	24 Hour Clock	Gas Gravity	-	Surface Pressure	1/2" CHOKE 580# psi
Initial Hydro Mud Pres.	4850	4929 4913	Tool Opened	7:40 PM	Tool Closed	2:35 AM
Initial Closed in Pres.	3869	3980 3964	Remarks	Opened tool for 20 minute 1st flow. Closed tool for 95 minute initial closed in pressure.		
Initial Flow Pres.	-	1 2688 2701		Reopened tool for 120 minute 2nd flow with a strong		
Final Flow Pres.	-	1 3764 3780		blow; gas to surface in 15 minutes, fluid at sur-		
Final Closed in Pres.	3869	3975 3960		face in 20 minutes and oil at surface in 35 min.		
Final Hydro Mud Pres.	4761	4895 4880		Flowed 140 barrels in 120 minutes on 1/2" choke. Closed tool for 180 minute final closed in pressure.		

Legal Location: SEC. 31 - 14S - 35E
 Lease Name: AMERADA FEDERAL
 Well No.: 1
 Test No.: 1
 Field Area: N. LOVINGTON
 County: IEA
 State: NEW MEXICO
 Lease Owner/Company Name: MORAN OIL PROD. & DRILLING CORPORATION
 Operator's District: ROSWELL

FORMATION TEST DATA

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SPECIAL PRESSURE DATA

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By Calculated H.L.
 14S-35-E-SEC 31
 11-9-67

Gauge No. 1516 Depth 10,470' Clock 12 hour Ticket No. 460688

	First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
P ₀	.000	2570	.000		3712	.000	3402	.000		3798
P ₁	.0423	2835	.0602		3876	.135	3775	.119		3883
P ₂	.0846	3180	.1204		3892	.270	3798	.238		3890
P ₃	.1269	3436	.1806		3899	.405	3798	.357		3894
P ₄	.1690	3712	.2408		3906	.540	3798	.476		3899
P ₅			.3010		3910	.675	3798	.595		3901
P ₆			.3612		3915	.810	3798	.714		3903
P ₇			.4214		3917			.833		3906
P ₈			.4816		3919			.952		3908
P ₉			.5418		3921			1.071		3908
P ₁₀			.6020		3921			1.190		3908

Gauge No. ^{20 min} 1496 Depth ^{95 min} 10,476' Clock ^{120 min} 24 hour 180

P ₀	.000	2688	.000		3764	.000	3445	.000		3845
P ₁	.0208	3000	.0303 ^{9.5}	3.11	3917	.0683	3820	.060 ¹⁸	7.65	3928
P ₂	.0415	3292	.0606 ^{19.20}	2.05	3930	.1366	3843	.120 ^{36-15.0}	4.33	3937
P ₃	.0623	3524	.0909 ^{27.5}	1.64	3939	.2049	3845	.180 ^{54-12.0}	3.22	3942
P ₄	.0830	3764	.1212 ³⁸	1.53	3946	.2732	3845	.240 ⁷²	2.67	3946
P ₅			.1515 ^{47.5}	1.42	3951	.3415	3845	.300 ⁹⁰	2.34	3951
P ₆			.1818 ⁵⁷	1.35	3955	.4100	3845	.360 ^{102-12.0}	2.11	3953
P ₇			.2121 ⁶⁶	1.30	3957			.420 ¹²⁶	1.95	3955
P ₈			.2424 ⁷⁵	1.26	3960			.480 ¹⁴⁴	1.83	3957
P ₉			.2727 ⁸⁵	1.23	3962			.540 ¹⁶²	1.74	3960
P ₁₀			.3030 ⁹⁵	1.21	3964			.600 ¹⁸⁰	1.66	3960

Reading Interval 5 9.5 20 18 Minutes

REMARKS:

SPECIAL PRESSURE DATA 10