

**NEW MEXICO OIL CONSERVATION COMMISSION
DELIVERABILITY TEST REPORT**

Form C-122-C
Revised 9-1-68

Type Test: ☒ Initial ☐ Annual ☐ Special RECEIVED 07-28-90										
Company: Oxy U.S.A.					Connection: JUI 31 '90					
Pool: Burton Flat					Formation: Wolfcamp					
Completion: 04-24-90			Total Depth: 11,492		Plug Back TD: 9681		Elevation: 3228.6 GL			
Csg. Size: 5 1/2 Wt. 17 & 20 Set At: 11,492					Perforations: From 9114 To 9317					
Tub. Size: 2 3/8 Wt. 4.7 1.995 Set At: 9655					Perforations: From To					
Type Well - Single - Brodenhead - O.O. or G.O. Multiple: Single					Packer Set At: 9,655		County: Eddy			
Producing thru: TBG		Reservoir Temp. °F: 166 @ 9215		Mean Annual Temp. °F: 60		Baro. Press. - P _a : 13.2		State: N.M.		
L: 9650	K: 9650	Q _g : .702	% CO ₂ : .16	% N ₂ : 1.05	% H ₂ S:	Prover: 4" OWT	Meter Run:	Taps:		
FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Choke Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F
SI							1720		PKR	
1.	4	X	2.500	4" H8			635		PKR	
NO.	Coefficient (24-Hour)	$\sqrt{h_w P_m}$		Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compres. Factor F _{pv}	Rate of Flow Q, Mc/d		
1.	Vol. taken from 4" OWT manual N.M.							1,212		
NO.	P ₁	Temp. R.	T ₁	Z	Gas Liquid Hydrocarbon Ratio: 21.3 Mc/bbl.					
					A.P.I. Gravity of Liquid Hydrocarbons: 48.7 Deg.					
	----- n/a -----				Specific Gravity Separator Gas: .702 XXXXXXXXXXXX					
	P _d 0.8 (1813.9)=1451.1				Specific Gravity Flowing Fluid: XXXXX					
	P _d ² 2105.7				Critical Pressure: *667 p.s.i.a. p.s.i.g.					
	P _e 1813.9 p.s.i.g. 3290.2				Critical Temperature: *389 R R					
	P _e 1813.9 p.s.i.g. 3290.2				P _e 1813.9 p.s.i.g. 3290.2					
NO.	P ₁	P ₁ ²	P _e ² - P ₁ ²	P _w	P _w ²	P _e ² - P _w ²	P _s	P _s ²	P ₁ ² - P _s ²	
				1164.6	1356.3		1519.2	2307.9	99.3	

$$\left[\frac{P_e^2 - P_d^2}{P_e^2 - P_w^2} \right] = \left[\frac{1184.5}{1933.9} \right] = 0.6125$$

$$\text{Log} \left[\frac{P_e^2 - P_d^2}{P_e^2 - P_w^2} \right] = 9.212893 - 10$$

$$\left[\frac{P_e^2 - P_d^2}{P_e^2 - P_w^2} \right]^n = 0.6125$$

$$n \text{ Log} \left[\frac{P_e^2 - P_d^2}{P_e^2 - P_w^2} \right] = 9.212893 - 10$$

$$\text{Deliv.} = Q \left[\frac{P_e^2 - P_d^2}{P_e^2 - P_w^2} \right]^n = (1.212)(0.6125)$$

Deliv. 742 Mc/d
1.000

NO PREVIOUS BACK PRESSURE CURVE
(Source of n)

*=correct to 1.02% N₂

Well made 56.8 BBLS COND. & 9.7 BBLS H₂O

**=BHP Instr. set @ this depth SIP & flowing pressures were obtained from known BHP's which are attached.

Commission _____

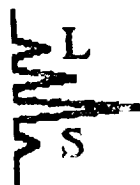
Company _____

Others _____

Laboratory Services

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 367-3713



FOR:

Pro Well Testing & Wireline
Attention: Mr. Merv Buecker
P. O. Box 791
Hobbs, New Mexico 88241

STATION

SAMPLE

IDENTIFICATION: Govt. "W" #2

COMPANY: OXY USA

LEASE:

PLANT:

SAMPLE DATA: DATE SAMPLED: 07/28/90 3:00PM GAS (XX) LIQUID ()
ANALYSIS DATE: 07-28-90 SAMPLED BY: Merv Buecker
PRESSURE - PSIG 200.00 ANALYSIS BY: Rolland Perry
SAMPLE TEMP. °F 60.00
ATMOS. TEMP. °F

REMARKS:

COMPONENT ANALYSIS

COMPONENT		MOL PERCENT	GPM
OXYGEN	(O2)		
Hydrogen Sulfide	(H2S)		
Nitrogen	(N2)	1.05	
Carbon Dioxide	(CO2)	0.16	
Methane	(C1)	79.86	
Ethane	(C2)	12.07	3.208
Propane	(C3)	4.42	1.213
I-Butane	(IC4)	0.53	0.172
N-Butane	(NC4)	1.10	0.345
I-Pentane	(IC5)	0.23	0.084
N-Pentane	(NC5)	0.24	0.086
Hexane	(C6)	0.34	0.146
Heptanes Plus	(C7+)	0.00	0.000
		100.00	5.254

BTU/CU.FT. - DRY
AT 14.650 DRY
AT 14.650 WET
AT 15.025 DRY
AT 15.025 WET

1219
1216
1194
1247
1225

MOLECULAR WT

20.3312

20% GASOLINE

0.451

SPECIFIC GRAVITY -
CALCULATED
MEASURED

0.702
0.000

FIELD DATA SHEET

PRODUCING THRU Tbg.

ORIFICE WELL TESTER

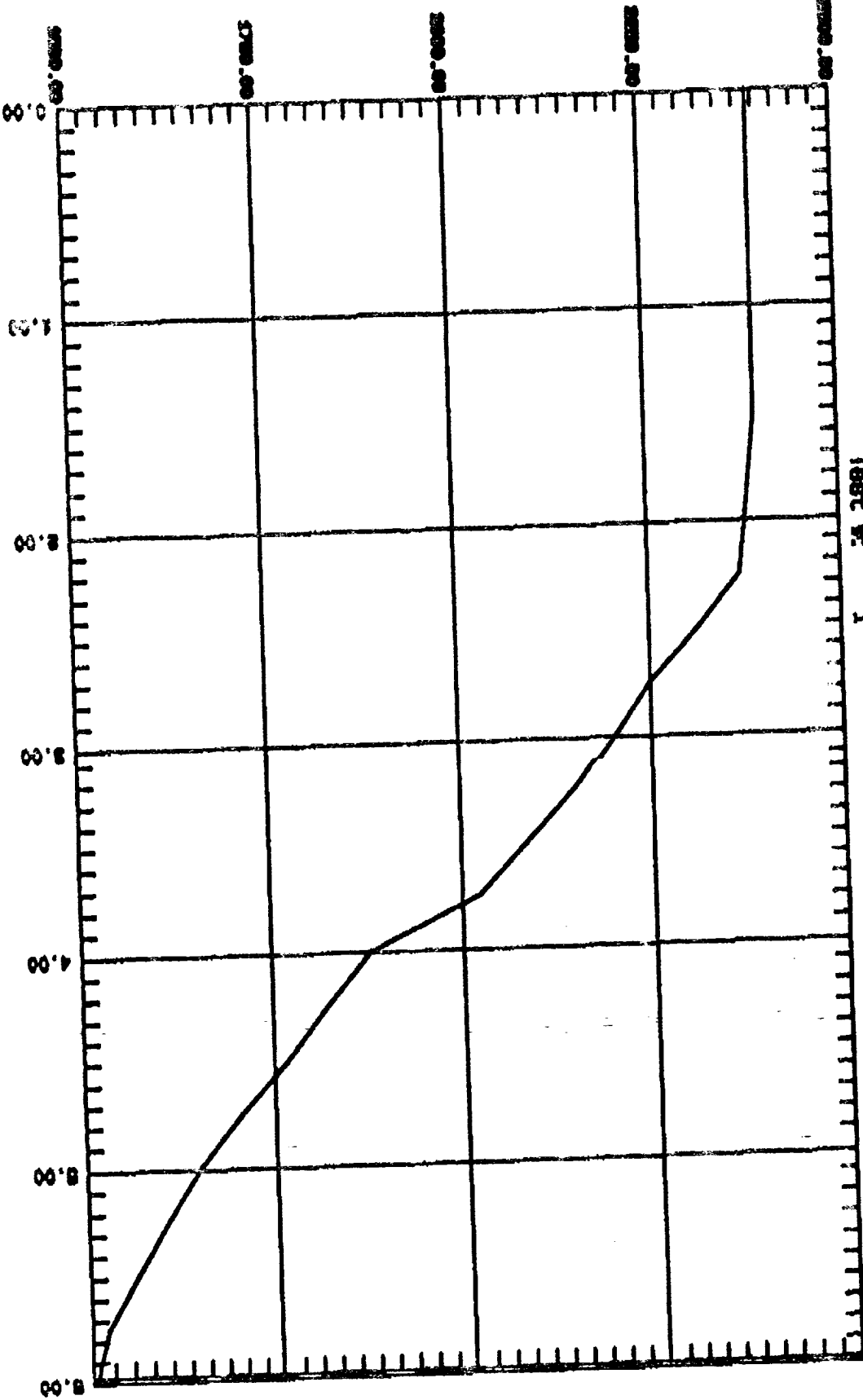
COND. API GRAVITY 48.7

Plot starting date: 7/28/90
time: 10: 0: 0
Gauge S/N

Company: PRO MODELIE
Client: OXY U.S.A.
Well name: GOVERNMENT 'W'
Well #: 2
Test #: 1

Location:
Operator: BURRELL
Comments: 1 POINT FLOW TEST

PRESSURE - PSIA



DELTA TIME - HRS

COMPANY: PRO WIRELINE
CLIENT: OXY U.S.A.
GAUGE NUMBER: 76932
WELL NAME: GOVERNMENT 'W'
WELL NUMBER: 2
TEST NUMBER: 1
LOCATION:
TEST OPERATOR: BURRELL
COMMENTS: 1 POINT FLOW TEST

POSITION	GAUGE SERIAL NUMBER
1	
2	
3	
4	

PAGE START DATE: 7/28/90

GAUGE S/N: 76932

DATA FILE: 5

REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
10: 0: 0	0.0000	2394.00		ON BOTTOM
11:30: 0	1.5000	2394.00		BEGIN PREHEAT
12:15: 0	2.2500	2371.00		START FLOW
12:30: 0	2.5000	2314.00		
12:43: 0	2.7500	2250.00		
13: 0: 0	3.0000	2202.00		
13:15: 0	3.2500	2151.00		
13:30: 0	3.5000	2087.00		
13:45: 0	3.7500	2023.00		
14: 0: 0	4.0000	1880.00		
14:15: 0	4.2500	1822.00		
14:30: 0	4.5000	1768.00		
14:45: 0	4.7500	1704.00		
15: 0: 0	5.0000	1647.00		
15:15: 0	5.2500	1602.00		
15:30: 0	5.5000	1561.00		
15:45: 0	5.7500	1522.00		
16: 0: 0	6.0000	1506.00		BT END OF TEST

COMPANY: FRO WIRELINE
CLIENT: OXY U.S.A.
GAUGE NUMBER: 76932
WELL NAME: GOVERNMENT 'W'
WELL NUMBER: 2
TEST NUMBER: 1
LOCATION:
TEST OPERATOR: BURRELL
COMMENTS: STATIC GRADIENT SURVEY
PRIOR TO FLOW TEST

POSITION

1
2
3
4

GAUGE SERIAL NUMBER

PAGE START DATE: 7/28/90
PAGE START TIME: 9: 01 0
DATA FILE: 5

GAUGE S/N: 76932

DELTA TIME HRS	DEPTH FEET	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
0.000	0.00	1720.00		GRADIENT LB/FT
0.167	2000.00	1861.00		.0705
0.333	4000.00	1988.00		.0635
0.500	6000.00	2129.00		.0705
0.667	8000.00	2272.00		.0715
0.833	9000.00	2346.00		.074
1.000	9650.00	2394.00		.074