

MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Job Number
 19568B

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5/16/00		RECEIVED OGD ARTESIA	
Company OXY USA, INC.				Connection Agave Energy Co.					
Pool Grayburg Atoka				Formation MORROW					
Completion Date 3/14/00		Total Depth 11150'		Plug Back TD 11087'		Elevation 3537'		Farm or Lease Name BAY STATE	
Csg. Size 4.5	Wt. 11.6	d 4.0	Set At 11148'	Perforations: From 10440 To 10455				Well No. 2 033-17-29	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 10402	Perforations: From To				Unit Sec. Twp Rge.	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At 10390'		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 144 @ 10402		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State NM	
L 10402	H 10402	G _g 0.6423	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 2.068	Taps FLANGE	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
1.	2.068	1.250	319	2.5	91	2090	92			96
2.	2.068	1.250	307	10.0	88	1976	91			1
3.	2.068	1.250	308	31.3	85	1827	90			1
4.	2.068	1.250	309	62.5	84	1503	90			1
5.						1026	88			1

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super. Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.	8.12	28.81	332.1	0.9715	1.2478	1.0271	292
2.	8.12	56.62	320.6	0.9744	1.2478	1.0267	574
3.	8.12	100.19	320.7	0.9772	1.2478	1.0273	1020
4.	8.12	141.78	321.8	0.9780	1.2478	1.0275	1444
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	343.874	Mcf/bbl.
1	0.50	551	1.48	0.948	A.P.I. Gravity of Liquid Hydrocarbons	59.4	Deg
2	0.48	548	1.47	0.949	Specific Gravity Separator Gas	0.6423	XXXXXXXXXX
3	0.48	545	1.46	0.948	Specific Gravity Flowing Fluid	XXXX	0.650
4	0.48	544	1.46	0.947	Critical Pressure	670	P.S.I.A. 670 P.S.I.A.
5					Critical Temperature	372	R 374 R

P _c 2123.8	P _c ² 4511				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3560$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2944$ $AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1869$
1.		2002	4007	504	
2.		1858	3453	1058	
3.		1548	2397	2113	
4.		1088	1184	3326	

Absolute Open Flow	1869	Mcf/d @ 15.025	Angle of Slope θ	49.7	Slope, n	0.847
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Remarks: Bottomhole pressures recorded using electronic pressure gauge #V-46.

Approved By Commission:	Conducted By: ARC Pressure Data, Inc.	Calculated By: Rod Dodson	Checked By:
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WELL GRADIENT SHEET

COMPANY OXY USA, INC.

LEASE BAY STATE

WELL NO. 2

FIELD _____

COUNTY EDDY

STATE NM

FORMATION MORROW

SHUT IN DATE & TIME _____

HOURS SHUT IN _____

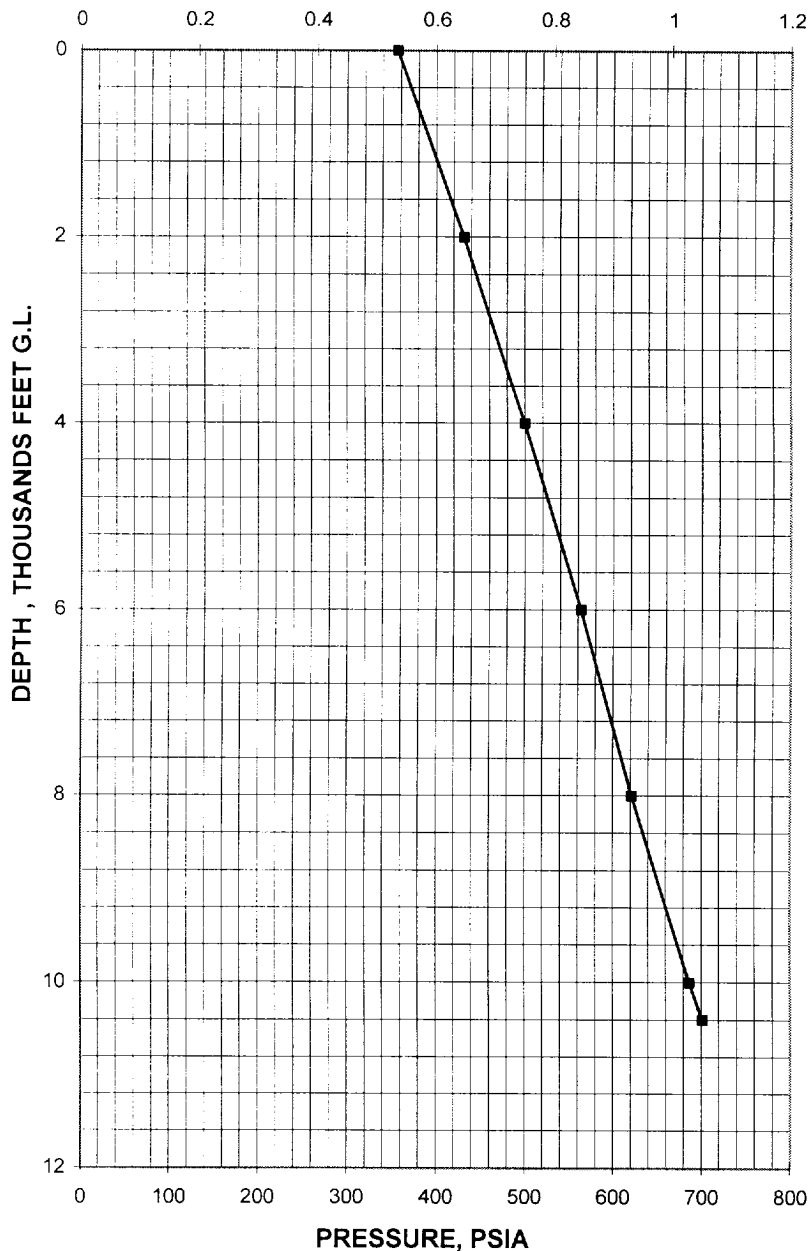
TEST DATE 5/12/00

TIME 11:00

WELL STATUS FLOWING

JOB NUMBER 19568A

TEMPERATURE, °F



—■— PRESSURE ——— TEMPERATURE

MEAS. DEPTH FEET G.L.	TRUE DEPTH FEET G.L.	TEMP. °F	PRESSURE PSIA	GRADIENT PSI/FT
0	0		356.24	
2000	2000		431.40	0.0376
4000	4000		499.80	0.0342
6000	6000		563.21	0.0317
8000	8000		621.25	0.0290
10000	10000		686.45	0.0326
10402	10402 R.D.		701.04	0.0363

* Final temperature of well increased to 143.8 deg F by the end of a four day buildup.

Elev: K.B. -	G.L. -
Pressure Datum	
Tubing 2.375	Depth 10388
S.N. 1.875 'F'	Depth 10402
Casing 4.5	Depth
Perforations 10440 - 10455	
Total Depth	
Casing Pressure	
Tubing Pressure 338 DWG	
Temp. @ 10402	= 94.9° - see comment*
Instrument No. V-46	
Run By TERRY MARTIN	
Calculated By HUB HAGLER	