

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date 4-13-1982	
Company Hess Texas Petroleum Corp.				Connection Southern Union		
Pool Bancro				Formation Dakota		Unit
Completion Date 3-31-82		Total Depth 7208		Plug Back TD 7171		Farm or Lease Name Sadie West
Csg. Size 5.000	Wt. 15.5	d 1.995	Set At 7204	Perforations: From 6980 To 7153		Well No. 2E
Tub. Size 2.375	Wt. 4.7	d 1.995	Set At 7104	Perforations: From open To ended		Unit Sec. Twp. Rge. M 21 31 12
Type Well - Single - Bradenhead - G.G. or C.O. Multiple Single				Packer Set At None		County San Juan
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		State New Mexico
Baro. Press. - P _a 12 psia		Prover		Meter Run		Taps
L	H	G _g .650	% CO ₂	% N ₂	% H ₂ S	

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.	13 days						1261		1275	
1.	2 inch	.750		32			32	60°	521	
2.										
3.										
4.										
5.										

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	12.3650		44	1.000	.9608	1.010	528
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 1287	P _c ² 1656369	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2070$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1516$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		533	284089	1372280
2.				
3.				
4.				
5.				

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ _____

Absolute Open Flow _____ Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .75
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Remarks: _____

Approved By Division _____	Conducted By: Joe Ellledge	Calculated By: Joe Ellledge	Checked By: Don Wells
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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-85

5a. Indicate Type of Lease	
State <input type="checkbox"/>	Fee <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.	

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>
1. Name of Operator <u>Union Texas Petroleum Corporation</u>		
2. Address of Operator <u>1860 Lincoln Street, Suite 1010, Denver, Colorado 80295</u>		
3. Location of Well UNIT LETTER <u>M</u> , <u>1140</u> FEET FROM THE <u>South</u> LINE AND <u>840</u> FEET FROM THE <u>West</u> LINE, SECTION <u>21</u> TOWNSHIP <u>31N</u> RANGE <u>12W</u> NMPM.		

7. Unit Agreement Name
8. Farm or Lease Name <u>Sadie West</u>
9. Well No. <u>2F</u>
10. Field and Pool, or Wildcat <u>Basin Dakota</u>

15. Elevation (Show whether DF, RT, GR, etc.) <u>5915' GL</u>
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12. County <u>San Juan</u>

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input checked="" type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1703.

This well was spudded 10/1/1981. A 13-1/2" hole was drilled with water to 300'. New 10-3/4", 40.5#, K-55 casing was set at 288' and cemented with 250 sacks. After waiting on cement for 12 hours, this casing was tested to 500# and held ok. A 9-7/8" hole was drilled with water and mud to 4636'. New 7-5/8", 26.4#, K-55 casing was set at 4635' and cemented with 800 sacks. After waiting on cement for 12 hours, the casing was tested to 1000# and held ok. A 6-3/4" hole was drilled with mud to 7208'. A new 5-1/2", 15.5#, K-55 liner was set at 7204' with the top at 4454' and cemented with 325 sacks. Prior to drilling out for completion, the 5-1/2" liner and the 7-5/8" casing was tested to 3500# and held ok. Completion will be made in the Dakota.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Thomas C. Bolhe TITLE Division Petroleum Engineer DATE April 27, 1982

Original Signed by FRANK T. CHAVEZ

SUPERVISOR DISTRICT 3

APPROVED BY _____ TITLE _____ DATE MAY 3 1982

CONDITIONS OF APPROVAL, IF ANY:

