

SHELL OIL COMPANY

PETROLEUM BUILDING P.O. BOX 1509 MIDLAND, TEXAS 79702

April 27, 1978

Subject: Application to Downhole Commingle for Shell Taylor-Glenn Well No. 1, Unit Letter K, Located 3226' FNL and 1980' FWL Section 3, T-21-S, R-37-E, Lea County, New Mexico Drinkard Field

DHC-241/ Duc-5/22/78

UL CONCERCEMON

Q- 1

State of New Mexico (3) Energy and Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87501

Attention Mr. J. D. Ramey, Secretary-Director

Gentlemen:

Shell Oil Company requests administrative approval under the provisions of Rule 303-C to commingle within the wellbore production from the Blinebry and Drinkard pools in its Taylor-Glenn Well No. 1, located in Unit K of Section 3, T-21-S, R-37-E, Lea County, New Mexico.

The subject well has been flowing from the Drinkard zone at a rate of 12 BOPD + 1 BWPD + 355 MCFGPD with a GOR of 29,600 CF/B. The Blinebry zone was reclassified as an oil zone with a special C-116 submitted April 7, 1978 showing a test of 22 BOPD + 1 BWPD + 397 MCFGPD, GOR 18,000 CF/B.

Production from the Blinebry and Drinkard formations has been surface commingled at the Taylor-Glenn Battery for a number of years without any indication of fluid incompatibility. Since the crudes are commingled at the Battery before being sold, no difference in value will result by commingling within the wellbore of the subject well.

The static BHP for the Blinebry was 444 PSIG, and the Drinkard is 396 PSIG.

Bl@ 5649 - 5850: 22 B0 65 % 397 mef 53% Dr@ 6491 - 6715: $\frac{12B0}{34} \frac{355}{752}$ mef 47% STATE OF NEW MEXICO - ENERGY AND MINERALS DEPT.

A copy of this application is being sent to all offset operators. Your further handling and approval of this application will be sincerely appreciated.

Yours very truly,

R.J. Corner W. T. Weller, Jr. Operations Manager - Midland Mid-Continent Division

JWH: JAH

Attachments

cc - Offset Operators

- State of New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 1980 Hobbs, NM 88240

OFFSET OPERATORS

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TAYLOR-GLENN NO. 1 LEA COUNTY, NEW MEXICO

CONTINENTAL OIL CO. P. O. BOX 460 HOBBS, NM 88240

M. R. ANTWEIL P. O. BOX 2010 HOBBS, NM 88240

EXXON COMPANY-U.S.A. P. O. BOX 1600 MIDLAND, TX 79702

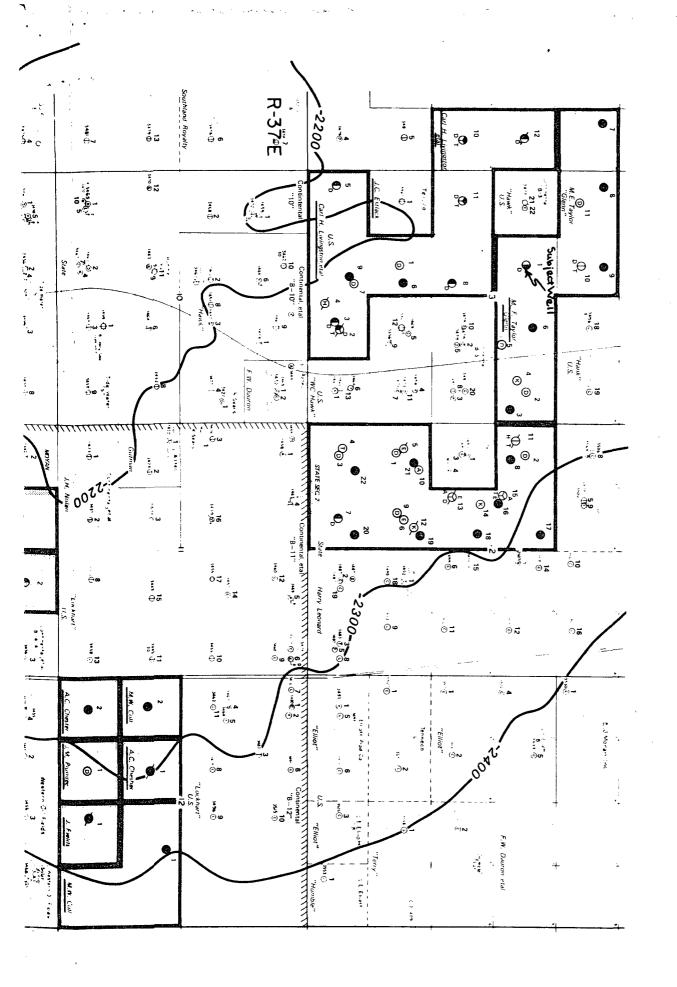
AZTEC OIL & GAS CO. P. O. BOX 337 HOBBS, NM 88240

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Report casing presenve in lieu of tubing presewe for any well producing through casing. Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.	No well will be assigned an ellowoble greater than the amount of oil produced on the official test. During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowedle for the proi is which well is located by more than 15 percent. Operator is encouraged to take advantage of this 15 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission. Gas volumes must be reported in MCF meadured at a pressure base of 15.025 pais and a temperature of 60° F. Specific gravity base will be 0.60.				81. 11.	NGE	• 197	$\frac{1}{2}$	Taylor Glenn	LEASE NAME	Address P.O. Box 576 Houston, T	Operator Shell Oil-Company	
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Supervisor-Oil Accounting	hat the ab e to the bu						 		397	IG TEST GAS S. H.C.F.			C 116
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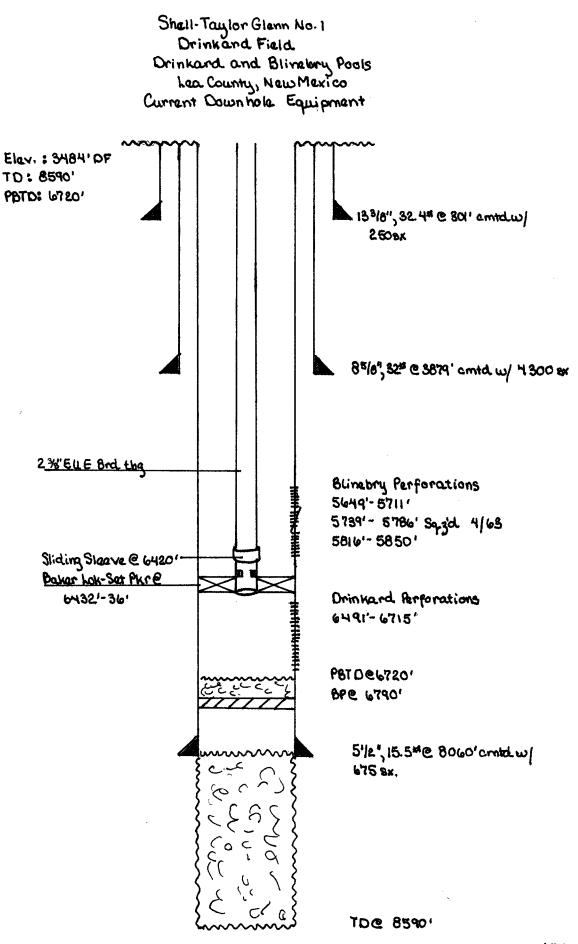
NEW MEXICO OIL CONSERVATION COMMISSION GAS - OIL RATIO TESTS

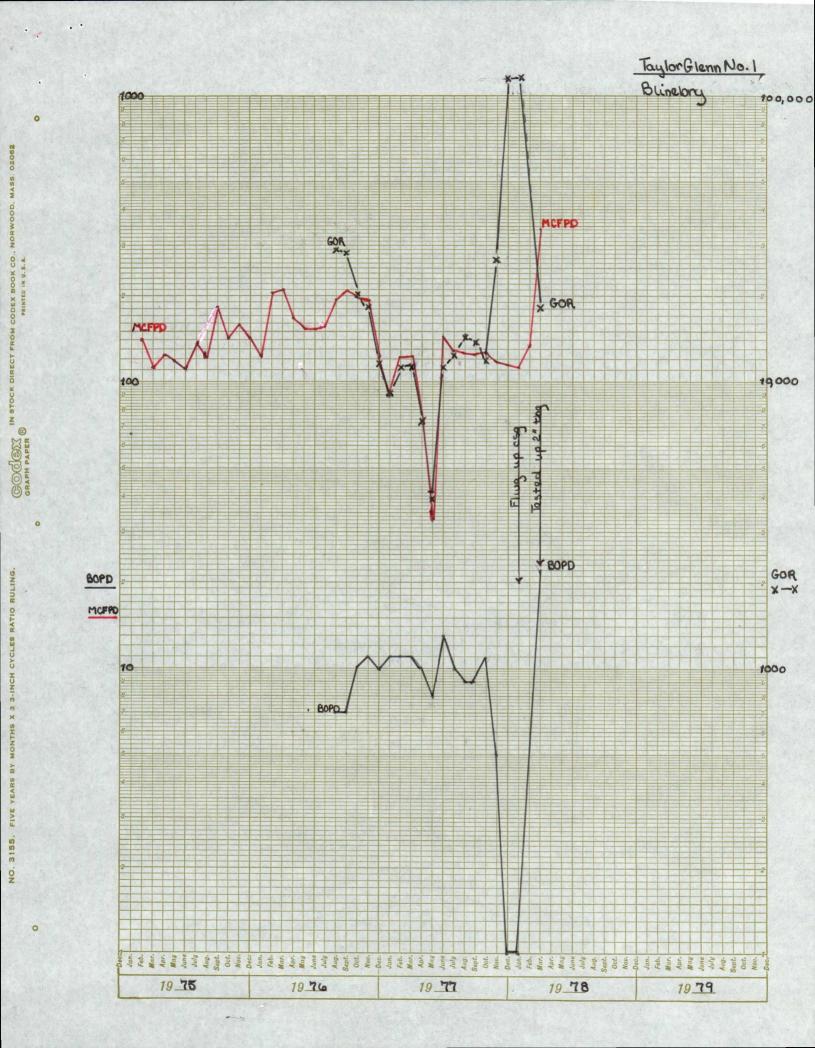
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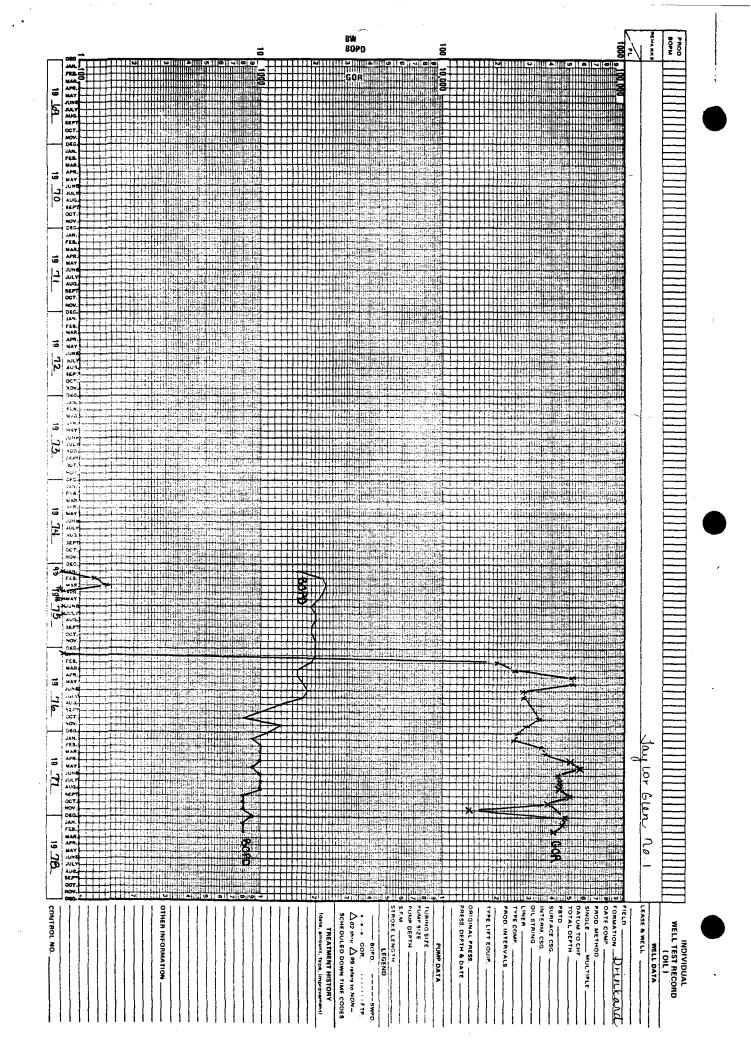
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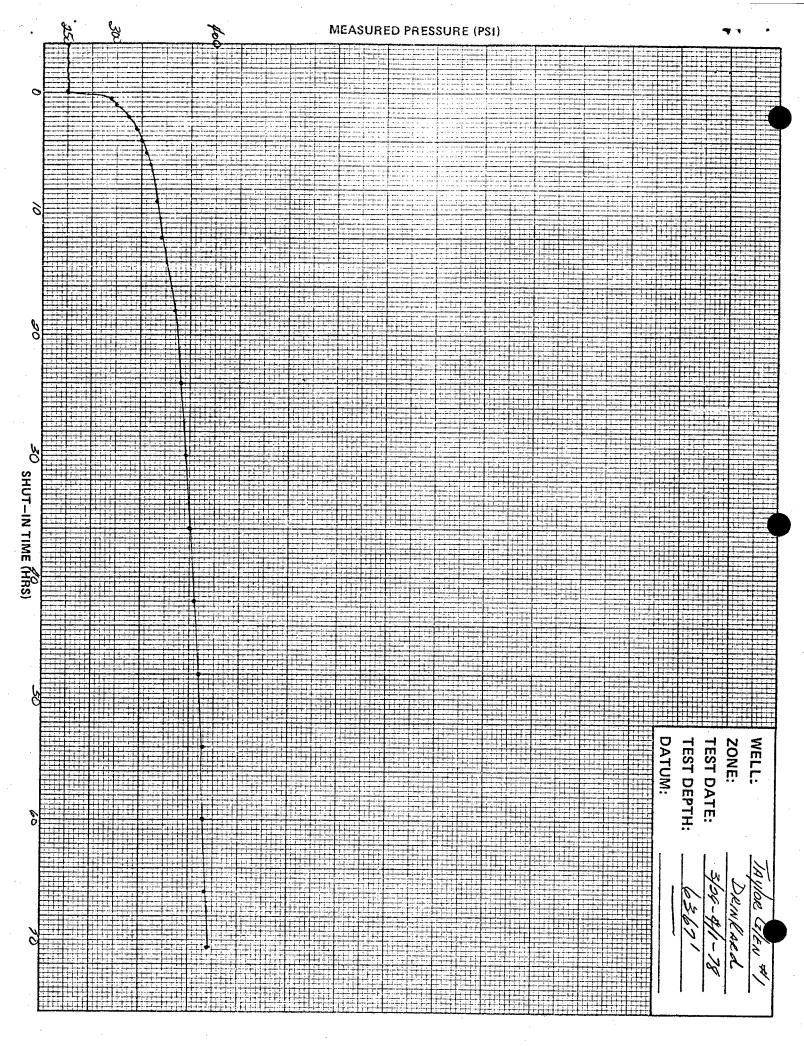


Shell-Taylon Glenn No. 1 Lea County, New Mexico









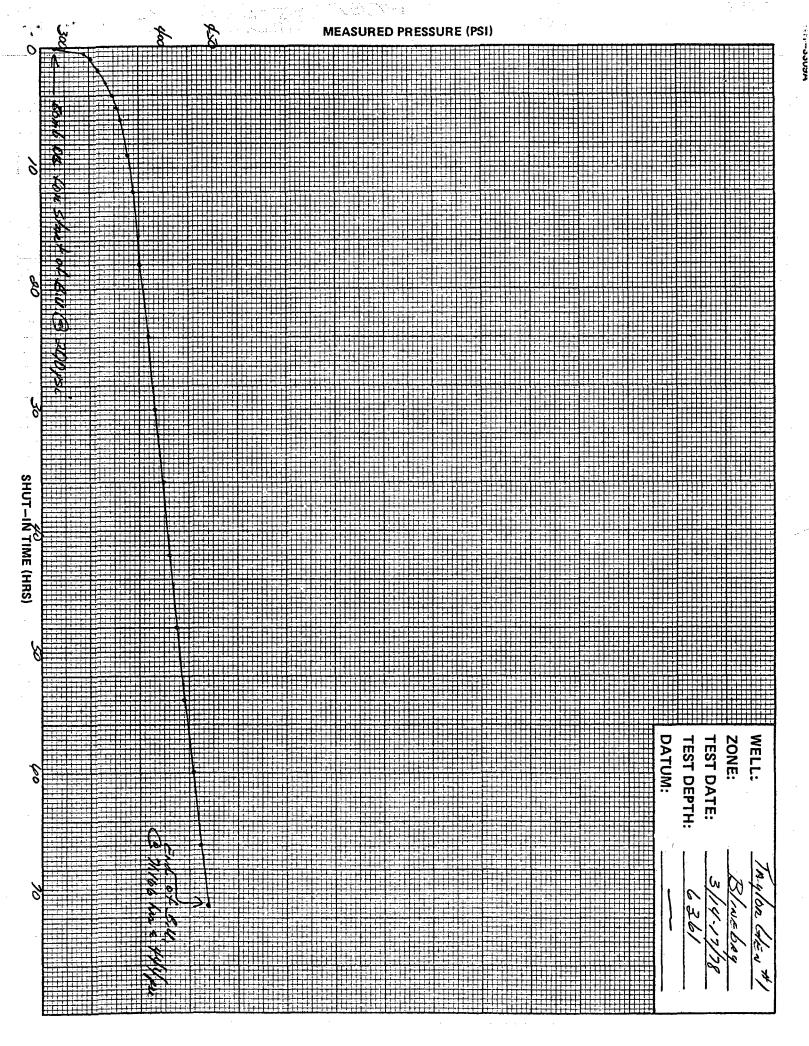
WR-3309 (REV. 2-77/DJR)

F12.4

5-211 DEST 1= 5 1882 1- Cy Jon#a - Hobbs -1- D.J. Roach

SHELL OIL COMPANY PSUDEACE PRESSURE SURVEY

(REV. 2–77/DJR) SILECC			,				
Company Shell Oil Company Lease <u>TAYlor GIEN</u> Well No. Field <u>DRINKARC</u> State NEW MISSICO Test Date <u>3/29-9/1-78</u>			·····				
Lease TAYLOR GIEN Well No.	Depth	Time	F	ress.,	ΔP	Sta	tic Test
Field DRINKARCL State NEW MARICO	D			, psig		ΔD	Gradient
Test Date 3/29-4/1-78							
Developed.							
Producing Formation Elevation (CHF, DF, KB, etc.) (Intermediate CHF, DF, KB, etc.)							
Datum subsea, or							
Producing FormationDuwlandElevation (CHF, DF, KB, etc.)UnklandDatumsubsea, orTubing Obstruction at1.718"SNC6431Production Packer at55 C 6 420'							
Production Packer at <u>55 @ 6 420 '</u>	_	Press.	Build	-up test	Tubing	Casing	Height
Perforations	Time	(a)	Δt	$\frac{t}{\Delta t} + 1$	Press.	Press.	of
		<u>6367</u> ft	hrs	Δt			Fluid
Instrument Data	0	8.52			76		
	.063	214 283		 	<u> </u>		
Company Running Survey Shell Of Co.	,250	285				1	
Company Running Survey $Shell Ol Co.$ Element-Range & No. $2600ps(-L384M)$ Clock - Range & No. $12 hr - 1031A$	1333	2.87					
Clock – Range & No. $2 \frac{\lambda r}{23} - \frac{1031A}{28}$ Calibration Date $2 \frac{2}{23} \frac{128}{28}$	1500	244			 		
Calibration Date $\frac{-4/24/18}{-1}$. 666	246 249					
Static Pressure Data	1.0	300					
Test Depth 6367 ft	1.5	306					
Pressure at Datum (6367 396 psig	2	313					
Shut-in Time 70.62 hrs	3-4	320 325					
Pi at Datum psig	5	329					
Shut-inTubing Pressure 358 psig	6	334					
Shut-in Casing Pressure psig	1	342					
Top of Oil	12	341 359			<u> </u>		
Top of Water °F	24	367					
Temperature atfeetF Date of Last TestV	30	372	······				
Date of Last Test Pressure (a) Datum, Last Test	36 42	376 381		 	 		
Shut-in Time, Last Test	48	386			}		
	54	389					
Flow Test Data	60	390					
Test Date	10.62	393			200		
Choke Size in	TOTAL	394			358	2	
Period of Stabilized Flow hrs							·····
Stabilized Production (q)							
Oil bbls/day	h			}			
Gas MCF/day Water bbls/day			`.		{		
Flowing Tubing Pressure psig Flowing Casing Pressure psig	ļ	· · ·			 	·	
Cumulative Production (Q)							
Oilbbls				l			
GasMCF							
Waterbbls	 				 		
Effect. Prod' Life, t=24 Q/q hrs	 			<u> </u>	<u> </u>		·
Remarks:	ļ						
SURVEYOR D. Prach	 			ļ	 		
SURVEYOR D. L. Krach							
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WR-3309	SHELL O		ΡΔΝΥ	1-6	y JONE D. S. Ro.	nch		
(REV. 2-77/DJR)	SUBSURFACE						4 - 14 1	
		AL300	STATES OF ALL					•
Company Shell Oil Lease TAY log, Glen	COMPANY	· · · · · ·	· ·					
Lease TAYLOR, GIEN	Well No	Depth	Time	۶ ا	ress.,	ΔP	Sta	tic Test
Field Drinkard	State NEW MELICO	D		, P	, psig		ΔD	Gradient
Test Date	17/78							
			1. A. A.					
	BL L.							
Producing Formation	Blinebry	1	a dan dan dari sa					
Elevation (CHF, DF, KB, etc.)			All and a second	1.2				
Datum subsea, c								
Tubing Obstruction at	1.78" SN@ 6431		Press.	Build	–up test			Halaba
Production Packer at	6432-36' Siding Sleevel 6420	Time		<u> </u>	F .	Tubing	Casing	Height
Perforations	SIMING S/ERVEC 6420	1 nne	@ <u>636/</u> ft	Δt	$\frac{\tau}{\Delta t}$ + 1	Press.	Press.	of Fluid
		· · · ·		hrs	Δτ			Fiuld
Instrument Data		0	240			81		
	el llala	,083	3/1 3/5	<u> </u>				
Company Running Survey	Shell Oil Company	.166	315 318	ļ				
Element-Range & No.	3500 pri-55/3N	.333	320					
Clock Range & No.	12/12 - 10374	, 500	322					
Calibration Date	2/21/78	1666	324					
		. 833	325	ļ				
Static Pressure Data		1.0	327	 				
Test Depth	<u>636/ ft</u>	1.5	33/					
Pressure at Detres (6361)	444 psig	$\frac{\gamma}{3}$	343					
Shut—in Time	<u>71.166 hrs</u>	4	348	<u> </u>				
Pj at Datum	psig	5	3.53					· .
Shut—inTubing Pressure	2.90 psig	6	357					
Shut-in Casing Pressure	psig	9	364	· · · · ·			· · ·	
Top of Oil		12	369	· ·				
Top of Water		18	376					
Temperature atfeet	<u> </u>	24 30	392					
Date of Last Test	LIVENOLU, psig	36	401			•		
Pressure @ Datum, Last Test	psig	42	406					
Shut-in Time, Last Test		48	413					
		54	420					
Flow Test Data		60	429 437					
Test Date		71.161	yster	<u> </u>		290		
Choke Size	in	a segu	177-		· · · · · · · · · · · · · · · · · · ·	0-10		
Period of Stabilized Flow	<u>24 hrs</u>							•
Stabilized Production (q)								
Oil	20 bbls/day			ļ		·		
Gas	400 MCF/day							
Water	bbis/day			 				
Flowing Tubing Pressure	psig							
Flowing Casing Pressure	psig			-				
Cumulative Production (Q)								
Oil	bbls			ļ				
Gas	<u>MCF</u>			}				· · · · · · · · · · · · · · · · · · ·
Water				}				
Effect. Prod' Life, t=24 Q/q	hrs			 				· · · · · · · · · · · · · · · · · · ·
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Remarks:								
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SURVEYOR ARKouch