

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WELL COMPLETION OR RECOMPLETION REPORT AND LOGFORM APPROVED
OMB NO. 1004-0137
Expires: November 30, 2000
Lease Serial No.

NM-102024

1a. Type of Well ☐ Oil Well ☐ Gas Well ☒ Dry ☐ Other
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Diff. Resvr.
Other _____

RECEIVED

2. Name of Operator

NOV - 7 2003

Dominion Oklahoma Texas Exploration & Production, Inc.

3. Address

14000 Quail Springs Parkway - Ste. 600 - Okla. City, OK 73134

3a. Phone No. (include area code)

405-749-1300

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.

Stardust "3" Federal #1

9. API Well No.

30-005-63443

10. Field and Pool, or Exploratory
Wildcat, Morrow11. Sec., T., R., M., or Block and
Survey or Area

3-15S-28E

12. County or Parish

Chaves County

13. State

NM

17. Elevations (DF, RKB, RT, GL)*

GL 3654'

At surface

At top prod. Interval reported below

UL I, 1980' FSL & 660' FEL

At total depth

14. Date Spudded
1/30/0215. Date T.D. Reached
3/1/02

16. Date Completed



D&A

Ready to prod.

6/20/02

18. Total Depth: MD 9,450'
TVD19. Plug Back T.D.: MD 9,346'
TVD20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

Azimuthal Laterolog, Borehole Comp. Sonic

Three Detector Litho-Density Compensated Neutron

22. Was well cored?

☒ No☐ Yes

(Submit analysis)

Was DST run?

☒ No☐ Yes

(Submit report)

Directional Survey?

☐ No☒ Yes

(Submit copy)

23. Casing and Liner Record (Report all string set in well)

Hole Size	Size/Grade	Wt. (#/ft)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17 1/2"	13 3/8"	48#	Surface	407'		525 Sx		55'	
11"	8 5/8"	32#	Surface	2,008'		800 Sx		Circ.	
7 7/8"	5 1/2"	17#	Surface	9,450'		550 Sx		7,000'	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 3/8"	9031'							

25. Producing Intervals

Formation	Top	Bottom	Perforation Interval	Size	No. Holes	Perf. Status
A) Morrow Clastics	9,082'	9,173'	9,099' - 9,139'		6 spf	PR
B)						
C)						
D)						
E)						
F)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
9,099' - 9,139'	2,000 gal 10% NeFe acid w/15% methanol & 200 ball sealers
9,099' - 9,139'	28,868 gal 40# water frac H, 1000 sks 20/40 carbo lite sand, 224 tons co2.

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
6/20/02	8/9/02	24	→	19	471	0	55.5		Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
18	279		→	19	471	0	1.24:789		Producing

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

(See instructions and spaces for additional data on reverse side)

ACCEPTED FOR RECORD

(ORIG. SGN) DAVID R. GLASS

AUG 21 2002

DAVID R. GLASS
PETROLEUM ENGINEER

28b Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Sold

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Description, Contents, etc.	Name	Top Meas. Depth
Tubb	4,781				
Abo Shale	5,580				
Wolfcamp	6,800				
Atoka Clastics	8,914				
Lower Atoka	8,996				
Morrow Clastics	9,082				
Upper Chester	9,174				
Lower Chester	9,323				

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32. Additional remarks (include plugging procedure)

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd)

2. Geologic Report

3. DST Report

4. Directional Survey

5. Sundry Notice for plugging and cement verification

6. Core Analysis

7. Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Carla Christian

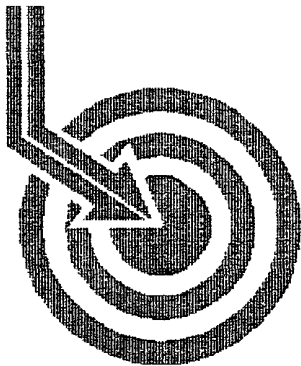
Title Regulatory Specialist

Signature

Carla Christian

Date August 13, 2002

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



Scientific Drilling

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DOMINION

Field: Wildcat
Site: Chaves County, NM
Well: Stardust 3 Fed. #1
Wellpath: VH - Job #32K0202057
Survey: 2/13/02

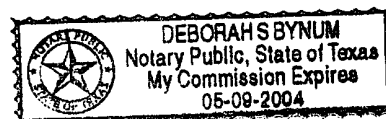


This survey is correct to the best of my knowledge
and is supported by actual field data.

[Signature] Company Representative

Notorized this date 8th of March, 2002.

[Signature]
Notary Signature
County of Midland
State of Texas



Scientific Drilling International

Survey Report

CONFIDENTIAL

Company: DOMINION	Date: 3/8/2002	Time: 12:30:13	Page: 1
Field: Wildcat	Co-ordinate(NE) Reference:	Site: Chaves County, NM, True North	
Site: Chaves County, NM	Vertical (TVD) Reference:	SITE 0.0 above Mean Sea Level	
Well: Stardust 3 Fed. #1	Section (VS) Reference:	Well (0.0E,0.0N,80.9Azi)	
Wellpath: VH - Job #32K0202057	Survey Calculation Method:	Minimum Curvature	

Survey: 2/13/02 KSRG 0'-7030'	Start Date: 3/8/2002
Company: Scientific Drilling Internatio	Engineer: Gary DeSpain
Tool: Keeper	

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg	DLS deg/100ft
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0.00
100.0	0.12	356.20	100.0	0.1	0.1	0.0	0.1	356.20	0.12
200.0	0.27	9.02	200.0	0.4	0.4	0.0	0.4	2.99	0.16
300.0	0.22	359.05	300.0	0.9	0.9	0.1	0.9	3.75	0.07
400.0	0.18	39.65	400.0	1.2	1.2	0.2	1.2	7.43	0.14
500.0	0.49	35.27	500.0	1.6	1.6	0.5	1.7	16.90	0.31
600.0	0.61	41.95	600.0	2.4	2.4	1.1	2.6	24.75	0.14
700.0	0.69	57.55	700.0	3.1	3.1	2.0	3.7	32.29	0.19
800.0	0.55	57.44	800.0	3.7	3.7	2.9	4.7	37.94	0.14
900.0	0.57	60.47	900.0	4.2	4.2	3.7	5.6	41.53	0.04
1000.0	0.68	69.14	1000.0	4.7	4.7	4.7	6.6	45.31	0.14
1100.0	0.78	72.56	1100.0	5.1	5.1	5.9	7.8	49.37	0.11
1200.0	0.73	70.61	1200.0	5.5	5.5	7.2	9.0	52.54	0.06
1300.0	0.82	65.63	1299.9	6.0	6.0	8.4	10.3	54.54	0.11
1400.0	0.79	57.38	1399.9	6.7	6.7	9.6	11.7	55.38	0.12
1500.0	0.74	63.96	1499.9	7.3	7.3	10.8	13.0	55.91	0.10
1600.0	0.75	65.48	1599.9	7.9	7.9	12.0	14.3	56.70	0.02
1700.0	0.75	65.06	1699.9	8.4	8.4	13.2	15.6	57.42	0.01
1800.0	0.71	58.68	1799.9	9.0	9.0	14.3	16.9	57.76	0.09
1900.0	0.63	53.37	1899.9	9.7	9.7	15.3	18.1	57.66	0.10
2000.0	0.47	55.20	1999.9	10.2	10.2	16.0	19.0	57.48	0.16
2100.0	0.47	56.44	2099.9	10.7	10.7	16.7	19.8	57.41	0.01
2200.0	0.44	52.39	2199.9	11.1	11.1	17.4	20.6	57.30	0.04
2300.0	0.44	45.92	2299.9	11.7	11.7	17.9	21.4	57.01	0.05
2400.0	0.48	46.18	2399.9	12.2	12.2	18.5	22.2	56.61	0.04
2500.0	0.55	45.24	2499.9	12.8	12.8	19.2	23.1	56.19	0.07
2600.0	0.58	47.20	2599.9	13.5	13.5	19.9	24.0	55.78	0.04
2700.0	0.58	56.54	2699.9	14.1	14.1	20.7	25.0	55.63	0.09
2800.0	0.76	68.27	2799.9	14.7	14.7	21.7	26.2	55.96	0.23
2900.0	0.84	81.69	2899.8	15.0	15.0	23.1	27.5	56.92	0.20
3000.0	0.87	75.72	2999.8	15.3	15.3	24.5	28.9	58.01	0.09
3100.0	0.93	73.30	3099.8	15.7	15.7	26.0	30.4	58.85	0.07
3200.0	1.07	72.24	3199.8	16.2	16.2	27.7	32.1	59.60	0.14
3300.0	1.10	69.93	3299.8	16.9	16.9	29.5	34.0	60.23	0.05
3400.0	1.08	70.40	3399.8	17.5	17.5	31.3	35.8	60.76	0.02
3500.0	0.99	68.49	3499.8	18.1	18.1	33.0	37.6	61.18	0.10
3600.0	0.93	64.25	3599.7	18.8	18.8	34.5	39.3	61.40	0.09
3700.0	0.83	66.11	3699.7	19.5	19.5	35.9	40.8	61.54	0.10
3800.0	0.62	65.20	3799.7	20.0	20.0	37.0	42.1	61.67	0.21
3900.0	0.51	61.03	3899.7	20.4	20.4	37.9	43.1	61.70	0.12
4000.0	0.51	57.09	3999.7	20.9	20.9	38.7	44.0	61.65	0.04
4100.0	0.47	56.69	4099.7	21.3	21.3	39.4	44.8	61.56	0.04
4200.0	0.40	50.08	4199.7	21.8	21.8	40.0	45.6	61.43	0.09
4300.0	0.31	26.18	4299.7	22.3	22.3	40.4	46.1	61.15	0.17
4400.0	0.31	15.05	4399.7	22.8	22.8	40.6	46.5	60.72	0.06
4500.0	0.17	3.06	4499.7	23.2	23.2	40.7	46.8	60.33	0.15
4600.0	0.24	357.29	4599.7	23.5	23.5	40.7	47.0	59.95	0.07
4700.0	0.17	353.07	4699.7	23.9	23.9	40.6	47.1	59.56	0.07

Scientific Drilling International Survey Report

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Company: DOMINION
Field: Wildcat
Site: Chaves County, NM
Well: Stardust 3 Fed. #1
Wellpath: VH - Job #32K0202057

Date: 3/8/2002 Time: 12:30:13 Page: 2
Co-ordinate(NE) Reference: Site: Chaves County, NM, True North
Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level
Section (VS) Reference: Well (0.0E,0.0N,80.9Azi)
Survey Calculation Method: Minimum Curvature

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg	DLS deg/100ft
4800.0	0.10	317.81	4799.7	24.1	24.1	40.6	47.2	59.29	0.11
4900.0	0.17	280.30	4899.7	24.2	24.2	40.4	47.1	59.06	0.11
5000.0	0.17	280.00	4999.7	24.2	24.2	40.1	46.8	58.83	0.00
5100.0	0.20	269.89	5099.7	24.3	24.3	39.7	46.6	58.59	0.04
5200.0	0.24	272.81	5199.7	24.3	24.3	39.4	46.2	58.34	0.04
5300.0	0.18	268.12	5299.7	24.3	24.3	39.0	45.9	58.09	0.06
5400.0	0.05	311.22	5399.7	24.3	24.3	38.8	45.8	57.94	0.15
5500.0	0.58	81.53	5499.7	24.4	24.4	39.3	46.2	58.14	0.61
5600.0	1.27	87.48	5599.7	24.5	24.5	40.9	47.7	59.03	0.70
5700.0	1.51	95.90	5699.6	24.4	24.4	43.3	49.7	60.55	0.31
5800.0	1.71	104.24	5799.6	23.9	23.9	46.1	51.9	62.53	0.31
5900.0	1.76	105.28	5899.6	23.2	23.2	49.0	54.2	64.68	0.06
6000.0	1.89	105.41	5999.5	22.3	22.3	52.1	56.6	66.78	0.13
6100.0	1.92	106.07	6099.5	21.4	21.4	55.3	59.3	68.81	0.04
6200.0	2.12	102.79	6199.4	20.6	20.6	58.7	62.2	70.69	0.23
6300.0	2.18	101.95	6299.3	19.8	19.8	62.3	65.4	72.42	0.07
6400.0	2.15	97.58	6399.3	19.1	19.1	66.1	68.8	73.87	0.17
6500.0	2.07	100.45	6499.2	18.5	18.5	69.7	72.1	75.11	0.13
6600.0	1.98	103.28	6599.1	17.8	17.8	73.1	75.3	76.32	0.13
6700.0	1.96	105.32	6699.1	17.0	17.0	76.5	78.3	77.50	0.07
6800.0	1.92	104.92	6799.0	16.1	16.1	79.7	81.3	78.60	0.04
6900.0	1.86	108.47	6899.0	15.1	15.1	82.9	84.3	79.66	0.13
7000.0	1.65	109.13	6998.9	14.1	14.1	85.8	87.0	80.64	0.21
7030.0	1.34	109.08	7028.9	13.9	13.9	86.5	87.7	80.88	1.03



Scientific
Drilling

Field: Wildcat
Site: Chaves County, NM
Well: Stardust 3 Fed. #1
Wellpath: VH - Job #32K0202057
Survey: 2/13/02

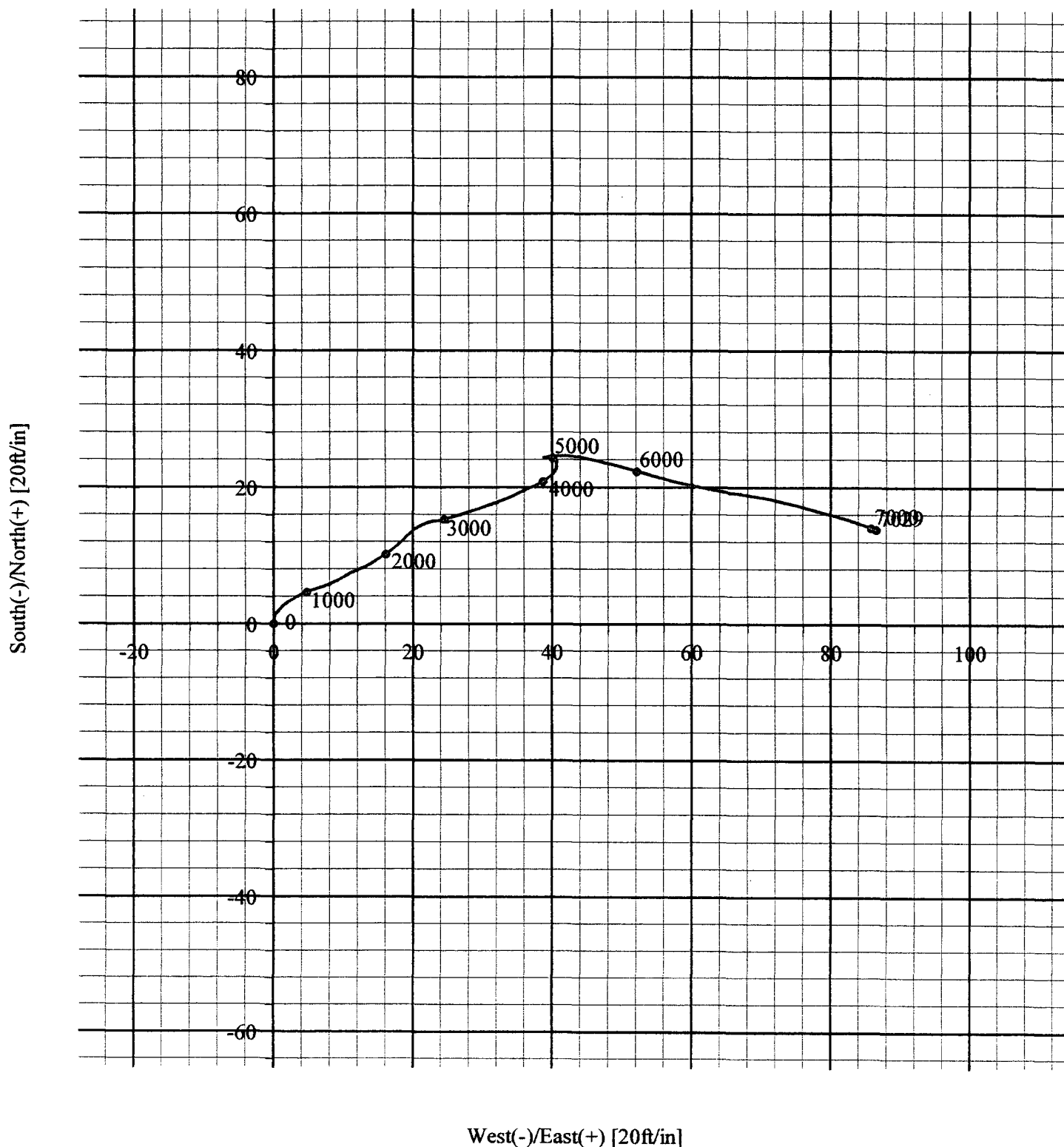
T/M



All Angles Relative
To True North

True North: 0.00
Magnetic North: 0.00

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OPERATOR: DOMINION EXPLORATION
WELL/LEASE: STARDUST 3 FED. 1
COUNTY: CHAVES

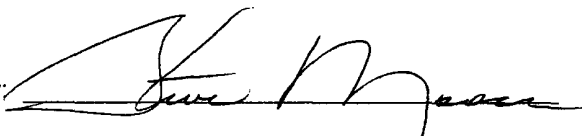
078-0008

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STATE OF NEW MEXICO
DEVIATION REPORT

174	3/4
892	1 1/4
1,393	1 1/2
1,645	1
2,008	1 1/4
2,508	3/4
3,136	1
3,612	3/4
4,116	1/2
4,525	3/4
5,001	1/2
5,475	3/4
5,729	1 3/4
5,949	2
6,011	1
6,107	1 3/4
6,235	2
6,328	2 1/2
6,424	2 1/4
6,520	2 3/4
6,614	2
6,716	2 1/2
6,810	2
6,863	2
7,392	2



By: 

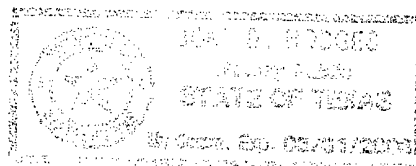
STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 5th day of March, 2002, by Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.


Notary Public for Midland County, Texas

My Commission Expires: 3/31/2003



Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-1991

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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MULTIPOINT AND POINT BACK PRESSURE TEST FOR GAS WELL

Operator				Lease or Unit Name Stardust 3			
Test Type ☒ Initial ☐ Annual ☐ Special				Test Date 4-15-2002		Well No. FED #1	
Completion Date 4-2-2002		Total Depth 9346		Plug Back TD 9346		Elevation	
Unit Ltr - Sec - TWP - Rge. UIS3TW15SR28E							
Csg. Size 5.500	Wt. 17.000	d 4.892	Set At 9346	Perforation: From 9099 To 9139			County CHAVES
Thg. Size 2.375	Wt. 4.700	d 1.995	Set At 9031	Perforation: From To			Pool Winmill Morrow
Type Well-Single-Bradenhead-G.O. or G.O. Multiple SINGLE				Packer Set At 9031		Formation Morrow	
Producing Thru TUBING		Reservoir Temp. F		Mean Annual Temp. F 70		Baro. Pressure 13.20	
Connection							
L 9346	H 9346	Gg .841	% CO ₂ 14.64	% N ₂ 1.49	% H ₂ S	Prover METER	Meter Run 3.068 Taps FLANGE

Flow Data					Tubing Data		Casing Data		SIF/Flow Duration (HRS.)
No.	(Prover) Line Size x Orifice Size	Press. PSIG	Diff. h _w	Temp. F	Press. PSIG	Temp. F	Press. PSIG	Temp. F	
Shut-in Pressure					1780	62		62	4000
1.	3.07 x 1.50	150.00	5.00	75	1876	75			1
2.	3.07 x 1.50	150.00	31.00	75	1494	75			1
3.	3.07 x 2.25	150.00	15.00	65	1372	60			1
4.	3.07 x 2.25	160.00	28.00	65	1195	65			1

RATE OF FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{\frac{h_w P_m}{P_c}}$	Pressure P _m	Flow Temp. FACTOR F _t	Gravity FACTOR F _g	Super Compress. FACTOR F _{pv}	Rate of Flow (Q) MCFD
1.	14.735	28.566	163.2	.9859	1.0904	1.0193	461.2
2.	14.735	71.128	163.2	.9859	1.0904	1.0193	1148.4
3.	28.226	49.477	163.2	.9952	1.0904	1.0205	1546.7
4.	28.226	67.106	173.2	.9952	1.0904	1.0218	2100.4

No.	P _r	TBMP.	T _r	Z
1.	.228	535	1.283	.9626
2.	.228	535	1.283	.9626
3.	.228	525	1.259	.9602
4.	.242	525	1.259	.9577

Gas-Liquid Hydrocarbon Ratio		9.4	Mcf/bbl
API Gravity of Liquid Hydrocarbons		50.4	Deg.
Specific Gravity Separator Gas		.841	
Specific Gravity Flowing Fluid		1.348	
Critical Pressure	716	PSIA	691 PSIA
Critical Temperature	417	R	578 R

$$P_c = 1793.2 \quad P_c^2 = 3215.6$$

No.	P _w	P _w ²	P _c ² - P _w ²
1.	1691.7	2861	353.568
2.	1520.7	2312	903.055
3.	1408.5	1983	1231.642
4.	1249.8	1561	1653.571

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.945}{1.945 - 1.918} = 1.918$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right] = 4027$$

Absolute Open Flow	4027	Modif @ 15.025	Angle of Slope -	45.6	Slope, a	.979
Remarks						
Approved By Division:	Conducted By: WINFRED SUTTON		Calculated By: BPT System		Checked By: LARRY RACKLEY	