

**UNITED STATES**  
**DEPARTMENT OF THE INTERIOR**  
**BUREAU OF LAND MANAGEMENT**

**SUBMIT IN DUPLICATE**

(See other instructions on reverse side)

FORM APPROVED  
OMB NO. 1004-0137  
Expires: February 28, 1995

5. LEASE DESIGNATION AND SERIAL NO.

LC-032511-E

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

Langlie Jal Federal #2

9. API WELL NO.

30-025-34619

10. FIELD AND POOL, OR WILDCAT

Jalmat Gas (T-Y-7R)

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec 8, T25S, R37E

12. COUNTY OR PARISH

Lea

13. STATE

NM

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

1a. TYPE OF WELL:

OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF RESVR ☐ Other ☐

2. NAME OF OPERATOR

SDX Resources, Inc.

3. ADDRESS AND TELEPHONE NO.

PO Box 5061, Midland, TX 79704 915/685-1761

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface

1930' FNL 1880' FEL Unit G

At top prod. interval reported below

At total depth

Same

14. PERMIT NO.

DATE ISSUED

12. COUNTY OR PARISH

13. STATE

Lea

NM

15. DATE SPUDDED

06/14/99

16. DATE T.D. REACHED

06/17/99

17. DATE COMPL. (Ready to prod.)

07/17/99

18. ELEVATIONS (DF, RKB, RT, GE, ETC.)\*

3157

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

3050

21. PLUG, BACK T.D., MD & TVD

3040

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

ROTARY TOOLS

0-3050

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)\*

2847 - 2894

25. WAS DIRECTIONAL SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

LDT-NCL-GR

27. WAS WELL CORED  
Yes

28.

**CASING RECORD (Report all strings set in well)**

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" J55	24#	628	12-1/4	425 sx Class C Circ	None
4-1/2" J55	10.5	3049	7-7/8	500 sx Lite 200 sx C Circ	None

29.

**LINER RECORD**

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30.

**TUBING RECORD**

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8" 2830		

31. PERFORATION RECORD (Interval, size and number)

2847, 49, 58, 60, 62, 68, 70, 88, 92, 94 (20 holes, 2 spf)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
2847-94	A: 3000 gal 15% NEFE
	F: 40000 gal Delta 20 + 110,000# 16/30 sd

33.

**PRODUCTION**

DATE FIRST PRODUCTION

07/17/99

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

Flowing

WELL STATUS (Producing or shut-in)  
Prod

DATE OF TEST

08/02/99

HOURS TESTED

24

CHOKE SIZE

full

PROD'N FOR TEST PERIOD

OIL—BBL.

OIL—BBL.

GAS—MCF.

GAS—MCF.

410

WATER—BBL.

WATER—BBL.

GAS-OIL RATIO

OIL GRAVITY-API (CORR.)

FLOW. TUBING PRESS.

20

CASING PRESSURE

20

CALCULATED 24-HOUR RATE

OIL—BBL.

GAS—MCF.

410

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold

TEST WITNESSED BY

Chuck Morgan

35. LIST OF ATTACHMENTS

Logs, Deviation Survey, Core Analysis

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

*Bernie Attwater*

TITLE Regulatory Tech

DATE 09/01/99

\*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes 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

37 SUMMARY OF POROUS ZONES: (Summarize all important zones of porosity and contents of, cored intervals, and all drill-stem tests, including depth intervals, tested, cushion used, time tool open, flowing air, shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC
Yates	2846	3036	Dolomite & Sand

38. GEOLOGICAL MARKERS

NAME	TOP	TRUE VERT. DEPTH
	MEAS. DEPTH	
Salt	1078	
Tansill	2688	
Yates	2846	

38. GEOLOGICAL MARKERS

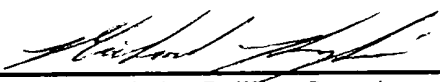
NAME	TOP	TRUE VERT. DEPTH
	MEAS. DEPTH	

SDX Resources, Inc.  
P.O. Box 5061  
Midland, Texas 79704

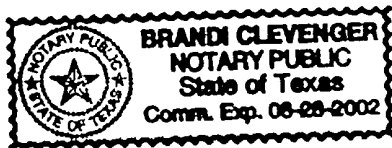
June 22, 1999

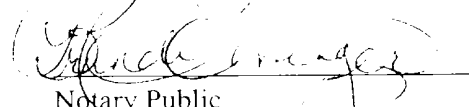
Langlie Jal Fed # 2  
Lea county, New Mexico

445	4.45	3/4	1.31	5.84	5.84
632	1.87	1	1.75	3.27	9.11
1132	5.00	1/2	0.88	4.38	13.49
1632	5.00	1	1.75	8.75	22.24
2131	4.99	3/4	1.31	6.55	28.79
2474	3.43	2 1/2	4.38	15.01	43.79
2725	2.51	1 1/2	2.63	6.59	50.38
2847	1.22	1 1/2	2.63	3.20	53.59
3050	2.03	1 3/4	3.06	6.22	59.80

  
Michael Roghair - Drilling Superintendent

The attached instrument was acknowledged before me on the 22 day of  
June, 1999 by Michael Roghair - Drilling Superintendent, CapStar Drilling.



  
Notary Public



## *Discussion of Laboratory Procedures and Results*

On June 21<sup>st</sup>, 1999 Precision Core Analysis, Inc. received 15 rotary-drilled sidewall cores from SDX Resources Inc. obtained from the Langlie Jal Federal #2 well in Lea County, New Mexico. The analyses of these core samples were discussed with Mr. Mark Longman and Mr. Mark Palmer. Enclosed are the results of these analyses.

When the plug samples were received the ends were trimmed to right cylinders utilizing a diamond-tipped trim saw and water as the blade coolant. The trimmed samples were placed into a CO<sub>2</sub>-Toluene core cleaner and flushed with solvent for a total of twelve hours. Following the cleaning process the samples were placed into a convection oven and dried for four hours at 180° F. The samples were then removed from the oven and allowed to cool within a sealed glass desicator until reaching room temperature.

The cleaned and dried core plugs were individually placed into a Coberly-Stevens Boyle's Law porosimeter and injected with helium. The grain volume was calculated using the results of these measurements. Finally grain density and porosity were determined for each sample, the results of which are presented in tabular format on the next page. Each sample was next placed into Hassler-Sleeve core holder and nitrogen gas was forced through the sample. Permeability to nitrogen was calculated and is reported in tabular format on the next page.

It was noted that several of the samples had lower than expected grain density values. After discussing this with Mr. Longman it was decided to select several of these samples, continue the cleaning procedure for a longer duration (additional 12 hours) and re-measure the rock properties. These results are presented at the bottom of the tabular data. In each case the grain density and porosity values increased by some degree. Through discussions with Mr. Longman it was determined that the toluene was removing an amount of in-situ solid hydrocarbon (bitumen), thus raising the grain density values while simultaneously increasing the calculated porosity and permeability determinations.

1456 / 8910112131415161718192021222324252627282930



SDX Resources Inc.  
Langlie Jal Fed. #2  
Sec. 8 T25S R37E  
Lea County, New Mexico

Job:  
Date:

99019  
28-Jun-99

Reference Number	Depth (ft)	Permeability Air (md)	Permeability Klink (md)	Helium Porosity (%)	Grain Density (g/cc)	Sample Description
<i>Rotary-Drilled Sidewall Cores</i>						
1	2976.0	2.36	1.83	12.8	2.61	Sst vf-f gr pyr qtz ovrghs
2	2955.0	0.668	0.493	11.2	2.61	Sst vf gr pyr qtz ovrghs cl lams
3	2937.0	117.	103.	22.7	2.57	Sst f gr pyr gd srtg qtz ovrghs
4	2934.0	16.2	12.8	20.9	2.62	Sst vf-f gr tr pyr qtz ovrghs glau
5	2925.0	2.13	1.58	14.3	2.61	Sst vf-f gr pr srtg qtz ovrghs
6	2908.0	3.22	2.44	14.3	2.57	Sst vf-f gr pr srtg cl frag m-frac
7	2893.0	5.97	4.64	20.7	2.61	Sst vf-f gr pr srtg qtz ovrghs
8	2882.0	0.324	0.217	3.2	2.76	Ls slty wkst pr srtg cl lam tr pyr
9	2870.0	0.043	0.021	6.4	2.65	Clst cl-vf gr cl lam pyr mic
10	2862.0	0.436	0.302	12.7	2.63	Sst vf-f gr pr srtg cl lam m-frac pyr
11	2858.0	1.04	0.727	18.2	2.60	Sst vf gr cl lam qtz ovrghs
13	2800.0	0.262	0.170	11.5	2.83	Dol-Ls sdy pkst tr pyr pr srtg
14	2786.0	0.022	0.009	10.8	2.81	Dol-Ls pkst pr srtg
15	2776.0	0.002	<0.001	1.1	2.79	Dol-Ls pkst pr srtg tr cl lam
16	2738.0	0.006	0.002	8.3	2.76	Dol-Ls pkst pr srtg vug
<i>Samples Re-tested after additional cleaning.</i>						
1	2976.0	3.72	2.87	14.2	2.64	Sst vf-f gr pyr qtz ovrghs
3	2937.0	120.	106.	23.0	2.58	Sst f gr pyr gd srtg qtz ovrghs
5	2925.0	2.57	1.94	15.5	2.63	Sst vf-f gr pr srtg qtz ovrghs
7	2893.0	6.19	4.83	21.1	2.62	Sst vf-f gr pr srtg qtz ovrghs
9	2870.0	0.079	0.043	8.5	2.70	Clst cl-vf gr cl lam pyr mic
11	2858.0	1.10	0.788	18.5	2.60	Sst vf gr cl lam qtz ovrghs

