

REPORT OF
SUB-SURFACE
DIRECTIONAL
SURVEY

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DIST. 3



**REPORT
of
SUB-SURFACE
DIRECTIONAL
SURVEY**

DEKA EXPLORATION, INC.

COMPANY

QUINLAN RANCH #1

WELL NAME

RIO ARRIBA COUNTY, NEW MEXICO

LOCATION

JOB NUMBER

TYPE OF SURVEY

DATE

SINGLE SHOT

7-16-92

SURVEY BY
DERRIL GLEIM

OFFICE
410-RMT

SURVEY CERTIFICATION SHEET


Company Deka Exploration, Inc Job # N/A Date July 16, 1992
Lease Quinlan Ranch Well # 1 State New Mexico
Surveyed from a depth of 167 feet to a depth of 2,450 feet.
Type of Survey Single Shot
Directional Supervisor/Surveyor Derril Gleim

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by Eastman Teleco Company. This report represents a true and correct Directional Survey of this well based on the original data obtained at the well site.

Checked by:


District Drilling Engineer

This document has been subscribed and affirmed, or sworn to before me in the county of Denver, state of Colorado, this 27th day of October, 1992.

 My commission expires Aug. 4, 1996
Notary

DEKA EXPLORATION INC.
QUILNLAN RANCH #1

QUINLAND RANCH #1
slot #1
WILDCAT
RIO ARRIBA, NEW MEXICO

S U R V E Y L I S T I N G

Your ref :
Our ref : svy2568
Other ref :

Date printed : 26-Oct-92
Date created : 16-Jul-92
Last revised : 26-Oct-92

Field is centred on 0.000,0.000,999.00000,+
Structure is centred on 0.000,0.000,999.00000,+

DEKA EXPLORATION INC.
QUILNLAN RANCH #1,QUINLAND RANCH #1
WILDCAT,RIO ARRIBA, NEW MEXICO

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Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100Ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00
167.00	0.25	103.00	167.00	0.08 S	0.35 E	0.15	0.36
828.00	1.00	103.00	827.96	1.70 S	7.38 E	0.11	7.57
1148.00	1.25	103.00	1147.89	3.12 S	13.50 E	0.08	13.86
1488.00	1.25	103.00	1487.81	4.78 S	20.73 E	0.00	21.27
1788.00	2.25	103.00	1787.67	6.85 S	29.66 E	0.33	30.44
2450.00	2.25	103.00	2449.16	12.69 S	54.98 E	0.00	56.42
EXTRAPOLATION-NOT AN ACTUAL SURVEY							

EXTRAPOLATION-NOT AN ACTUAL SURVEY

All data is in feet unless otherwise stated
Coordinates are from slot #1 and TVDs are from wellhead.
Vertical section is from wellhead on azimuth 103.00 degrees.
Calculation uses the minimum curvature method.

DEKA EXPLORATION INC.
QUILNLAN RANCH #1,QUINLAND RANCH #1
WILDCAT,RIO ARRIBA, NEW MEXICO

SURVEY LISTING Page 2
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Comments in wellpath
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MD	TVD	Rectangular Coords.		Comment
2450.00	2449.16	12.69 S	54.98 E	EXTRAPOLATION-NOT AN ACTUAL SURVEY

All data is in feet unless otherwise stated Y
Coordinates are from slot #1 and TVDs are from wellhead. Y
Slot coordinates are 0.00 N 0.00 E. Y
Bottom hole distance is 56.42 on azimuth 103.00 degrees from wellhead. Y
Vertical section is from wellhead on azimuth 103.00 degrees. Y
Calculation uses the minimum curvature method. Y