

Department of Mines, Minerals and Energy
Division of Gas and Oil
P.O. Box 1416
Abingdon, Virginia 24210
703/676-5423

COMPLETION REPORT



WELL TYPE: Oil Gas Coalbed Methane or Injection well

Date Well Completed: 5-30-96 Total Depth of Well: LTD = 2115 DTD = 2111

Attach the Drilling Report; if not previously submitted. In addition, submit any changes in casing or tubing that were approved after the Drilling Report was submitted.

STIMULATION RECORD

Zone 1: COAL SEAMS* Formation Stimulated With: 70Q FOAM

W/27679# 12/20 SAND - 985000 SCF N2 - 901 BF

Perforated: 1349 to 1913 No. of Perforations: 18 Perforation size: .34

Formation Broke Down at: 1145 PSIG Average Injection Rate: 69 (DH) BPM

ISIP: 1149 PSIG 5 Min SIP: 1058 PSIG Average Injection Pressure: 3685

Date Stimulated: 5-30-96

* C-SEAM, WARCREEK RIDER, WARCREEK, UNNAMED "C", BECKLEY, L HORSEPEN, X-SEAM, POCO #6

Zone 2: Formation Stimulated With:

Perforated: to No. of Perforations: Perforation size:

Formation Broke Down at: PSIG Average Injection Rate:

ISIP: PSIG Min SIP: PSIG Average Injection Pressure:

Date Stimulated:

Zone 3: Formation Stimulated With:

Perforated: to No. of Perforations: Perforation size:

Formation Broke Down at: PSIG Average Injection Rate:

ISIP: PSIG Min SIP: PSIG Average Injection Pressure:

Date Stimulated:

FINAL PRODUCTION: Natural X After Stimulation
BOD MCFD HOURS TESTED ROCK PRESSURE HOURS TESTED

Zone (1)

Zone (2)

Zone (3)

Final Production if Gas Zones are Commingled 61 MCFD 6 Hours Tested 96 PSIG 48 Hours Tested

* Use additional sheets with this format, if more than three (3) zones were stimulated.

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By: *Joseph R. Long* (Signature)

Department of Mines, Minerals and Energy
Division of Gas and Oil

Operations Name: V R SUTHERLAND VCP3569
Permit #: 3053 RU-47

Department of Mines, Minerals and Energy
Division of Gas and Oil
P. O. Box 1410
Abingdon, Virginia 24210
703/676-5423

DRILLING REPORT

Pursuant to VR-480-05-22.1, § 1.36, the undersigned Permittee submits this report on Well VCP3569 in the NEW GARDEN District of the RUSSELL County, Virginia on 31ST day, JULY month, 19 96.

LOCATION

County: RUSSELL District: NEW GARDEN
Surface Elevation: 2521.60 Elevation of Kelly Bushing: 2531.60 Quadrangle: DUTY
280 FT S. of Latitude 37° 02' 30" and 3990 FT W. of Longitude 82° 07' 30"

Attach a final location plat as required by VR 480-05-22.1, § 1.36.

DRILLING DATA

Date Drilling Commenced: 05-19-96 Drilling Contractor: Union Drilling
Date Drilling Completed: 05-23-96 Rig Type: Rotary Cable Tool
Total Depth of Well: LTD=2115 DTD=2111

GEOLOGICAL DATA

Fresh Water at:	feet	GPM	feet	GPM
	feet	GPM	feet	GPM
Salt Water at:	feet	GPM	feet	GPM
	feet	GPM	feet	GPM

COAL SEAMS:

<u>NAME</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>THICKNESS</u>	<u>MINING IN AREA</u>		
				<u>YES</u>	<u>NO</u>	<u>MINED OUT</u>
UPPER SEABOARD (SPLIT)	713	715	2			
GREASY CREEK	880	882	2			
LOWER SEABOARD	1043	1045	2			
UNNAMED "A" (SPLIT)	1112	1115	3			
WARCREEK RIDER	1364	1366	2			
WARCREEK	1387	1389	2			
BECKLEY (SPLIT)	1446	1456	10			
LOWER HORSEPEN (SPLIT)	1514	1522	8			
X-SEAM	1557	1559	2			
POCO #6	1910	1913	3			

GAS AND OIL SHOWS:

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>THICKNESS</u>	<u>IPF (MCFD/BOPD)</u>	<u>PRESSURE</u>	<u>HOURS TESTED</u>
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Cuttings or samples are are not available for examination by a member of the Virginia Division of Mineral Resources
Cuttings or samples have have not been furnished to the Virginia Division of Mineral Resources

ELECTRIC LOGS AND SURVEYS

List logs run on wellbore: DEN/TMP/GR

Did log disclose vertical location of a coal seam? Yes No

SURVEY RESULTS

DEPTH OF SURVEY	DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL	DEPTH OF SURVEY	DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL
200	1/4°	1348	1-1/4°
500	1°	1365	1-1/4°
530	1°	1387	1-1/4°
700	1/4°	1481	1-1/4°
900	1/4°	1576	1-1/2°
1100	1/2°	1776	1-1/2°
1216	1°	1906	3/4°
1300	1-1/4°	1950	3/4°

CASING AND TUBING

	SIZE	TOP	BOTTOM	LENGTH	CEMENT USED (IN CU/FT)	DATE CEMENTED	PACKERS OR BRIDGE PLUGS KIND SIZE SET AT
<u>Conductor</u>	16"		20'				
<u>Surface</u>	11-3/4"		352'	342'	78(92)	5-20-96	
<u>Water Protection</u>	8-5/8"		594'	584'	48(57)	5-21-96	SQUEEZE
<u>Coal Protection</u>					150(177)	5-21-96	
<u>Other Casing and Tubing Left in Well</u>	4 1/2" 2 3/8"		2082' 2003'	2072'	315(397)	5-23-96	

Liners

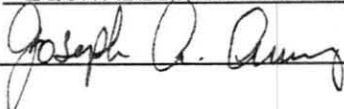
REMARKS: Shut down, fishing jobs, depths and dates, caving, lost circulation, etc.
OPEN MINE @ 304-309'; LOST CIRCULATION 5-20-96; LOST CIRCULATION 5-21-96

DRILLER'S LOG

Compiled by Engineering

<u>AGE</u>	<u>FORMATION</u>	<u>GENERAL LITHOLOGY</u>	<u>COLOR</u>	<u>DEPTH</u>		<u>THICKNESS</u>	<u>REMARKS</u>
				<u>TOP</u>	<u>BOTTOM</u>		
Pennsylvanian	Sand, Shale & Thin Coals			0	713	713	
	UPPER SEABOARD (SPLIT)			713	715	2	
	Sand, Shale & Thin Coals			715	880	165	
	GREASY CREEK			880	882	2	
	Sand, Shale & Thin Coals			882	1043	161	
	LOWER SEABOARD			1043	1045	2	
	Sand, Shale & Thin Coals			1045	1112	67	
	UNNAMED "A" (SPLIT)			1112	1115	3	
	Sand, Shale & Thin Coals			1115	1364	249	
	WARCREEK RIDER			1364	1366	2	
	Sand, Shale & Thin Coals			1366	1387	21	
	WARCREEK			1387	1389	2	
	Sand, Shale & Thin Coals			1389	1446	57	
	BECKLEY (SPLIT)			1446	1456	10	
	Sand, Shale & Thin Coals			1456	1514	58	
	LOWER HORSEPEN (SPLIT)			1514	1522	8	
	X-SEAM			1557	1559	2	
	Sand, Shale & Thin Coals			1559	1910	351	
	POCO #6			1910	1913	3	
	Sand, Shale & Thin Coals			1913	2115	202	
	Logger's Total Depth					2115	

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By:  (Signature)

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Zone 2:

Formation Stimulated With:

Perforated: to No. of Perforations: Perforation size:

Formation Broke Down at: PSIG Average Injection Rate:

ISIP: PSIG Min SIP: PSIG Average Injection Pressure:

Date Stimulated:

Zone 3:

Formation Stimulated With:

Perforated: to No. of Perforations: Perforation size:

Formation Broke Down at: PSIG Average Injection Rate:

ISIP: PSIG Min SIP: PSIG Average Injection Pressure:

Date Stimulated:

FINAL PRODUCTION: Natural X After Stimulation
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COAL SEAMS:

MINING IN AREA

<u>NAME</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>THICKNESS</u>	<u>YES</u>	<u>NO</u>	<u>MINED OUT</u>
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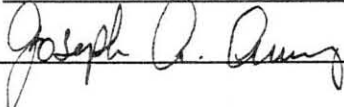
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	Logger's Total Depth				2115		

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

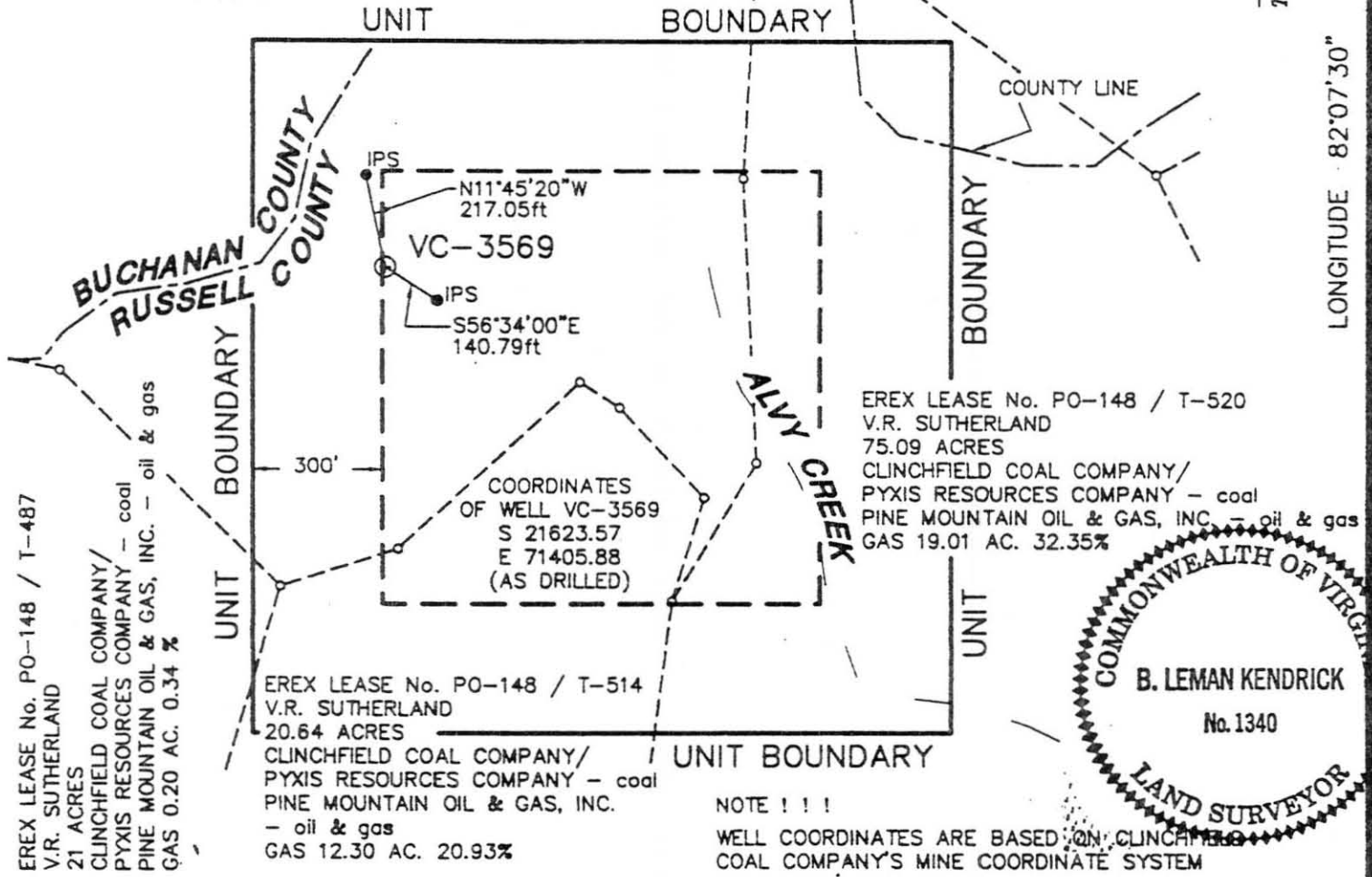
By:  (Signature)

JTAL UNIT AREA
= 58.77 ACRES

LATITUDE 37°02'30"

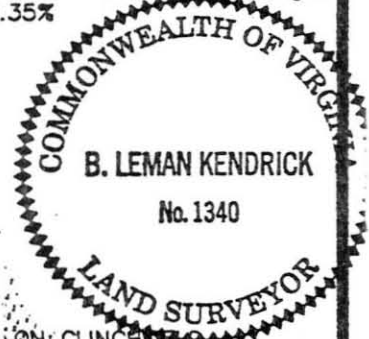
3,990'

EREX LEASE No. PO-148 / T-519
V.R. SUTHERLAND
82.0 ACRES
CLINCHFIELD COAL COMPANY/
PYXIS RESOURCES COMPANY - coal & surface
PINE MOUNTAIN OIL & GAS, INC. - oil & gas
GAS 27.26 AC. 46.38 %



LONGITUDE 82°07'30"

EREX LEASE No. PO-148 / T-520
V.R. SUTHERLAND
75.09 ACRES
CLINCHFIELD COAL COMPANY/
PYXIS RESOURCES COMPANY - coal
PINE MOUNTAIN OIL & GAS, INC. - oil & gas
GAS 19.01 AC. 32.35%



EREX LEASE No. PO-148 / T-487
V.R. SUTHERLAND
21 ACRES
CLINCHFIELD COAL COMPANY/
PYXIS RESOURCES COMPANY - coal
PINE MOUNTAIN OIL & GAS, INC. - oil & gas
GAS 0.20 AC. 0.34 %

EREX LEASE No. PO-148 / T-514
V.R. SUTHERLAND
20.64 ACRES
CLINCHFIELD COAL COMPANY/
PYXIS RESOURCES COMPANY - coal
PINE MOUNTAIN OIL & GAS, INC.
- oil & gas
GAS 12.30 AC. 20.93%

NOTE !!!
WELL COORDINATES ARE BASED ON CLINCHFIELD COAL COMPANY'S MINE COORDINATE SYSTEM
STATE PLANE WELL COORDINATES ARE CALCULATED FROM CLINCHFIELD COAL COMPANY COORDINATES.
PROPERTY INFORMATION PROVIDED BY EQUITABLE RESOURCES EXPLORATION.
ELEVATIONS ARE BASED ON TRIANGULATION STATION RIDGE LOCATED APPROXIMATELY 1890' WEST OF THE INTERSECTION OF ROUTES 621 AND 722 ON A KNOB.

COORDINATES OF BENCH MARK
S 21621.14
E 68707.84
ELEV. = 2672.34

STATE PLANE COORDINATES OF WELL VC-3569
N 277950.96
E 938248.43

WELL LOCATION PLAT

14-G-89

COMPANY Equitable Resources Exploration WELL NAME AND NUMBER VC - 3569
TRACT No. T-519 ELEVATION 2520.42 (Trig) QUADRANGLE DUTY
COUNTY RUSSELL DISTRICT NEW GARDEN SCALE: 1" = 400' DATE MAY 20,1996
THIS PLAT IS A NEW PLAT ; AN UPDATED PLAT ; OR A FINAL LOCATION PLAT x
PROPOSED TOTAL DEPTH OF WELL =

+ DENOTES THE LOCATION OF A WELL ON UNITED STATES TOPOGRAPHIC MAPS, SCALE 1 TO 24,000, LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.

B. Leman Kendrick 5/20/96 (AFFIX SEAL)
LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR