

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well
GAS

2. Name of Operator

**BURLINGTON
RESOURCES**

OIL & GAS COMPANY

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M

975' FSL, 870' FWL, Sec. 13, T-31-N, R-8-W, NMPM

m

5. Lease Number
NM-82815

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
Lewis Park #101

9. API Well No.
30-045-27622

10. Field and Pool
Basin Fruitland Coal

11. County and State
San Juan Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

Type of Action

<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other - Pump installation	

13. Describe Proposed or Completed Operations

It is intended to install a pump on the subject well according to the attached procedure and wellbore diagram.

RECEIVED
JAN - 6 1997

OIL CON. DIV.
DIST. 3

96 DEC 31 AM 7:55
070 FARMINGTON, NM

RECEIVED
BLM

14. I hereby certify that the foregoing is true and correct.

Signed [Signature] (KM6) Title Regulatory Administrator Date 12/30/96

(This space for Federal or State Office use)

APPROVED BY _____ Title _____ Date _____
CONDITION OF APPROVAL, if any:

APPROVED

DEC 31 1996

[Signature]
DISTRICT MANAGER

NMOCD

Pump Installation

Lewis Park #101
DPNO:4658A
Fruitland Coal
975' FSL, 870' FWL
Sec. 13, T31N, R08W, SJC

Project Summary: The Lewis Park #101 production has declined from 3.3 MMCFD in April, 1996, to 1.8 MMCFD in October, 1996. Production fluctuates greatly day to day depending on line pressure. This well loads up with water when line pressure increases. Under low line pressure conditions, the well flows 100 BWD and 3 MMCFD. We propose to install lift equipment to eliminate the fluctuations.

1. Test location rig anchors. Comply with all BROGC, NMOCD, and BLM rules and regulations.
2. Set used C160-173-100 pumping unit (MT from the Cooper #11 (WI=100%) in Area 2). Unit should be in the short stroke (73") hole and sheaved for 10 SPM. (See attachment 'A').
3. MIRU daylight PU. Kill well with produced water. ND WH, NU BOP. Pick up 1 joint 3-1/2" tubing and check for fill. Contact Operation Engineer if more than 15' of fill exists. POOH with tubing. RIH with notched collar, 1 joint 2-7/8" tubing, 4' perf sub, 2.25" ID SN, 12 joints 2-7/8" tubing, 2-7/8" x 3-1/2" crossover, and 91 joints 3-1/2" 9.3# J55 tubing. Land tubing at 3375'. ND BOP, NU WH.
4. RIH with a 25-175-RHAC-10-4-14 stroke through San Juan pump, 2100' of 3/4" Grade D rods with T couplings (84 rods), and 1225' of 7/8" Grade D rods with T couplings (49 rods). Space out with 7/8" pony rods if necessary. Load tubing and test pump action. Hang well on jack and RDMO PU. Turn well to production.

Approve:

 12/27/96
Operations Engineer

Approve:

Drilling Superintendent

Concur:

Production Superintendent

Contacts:

Operations Engineer

Kevin Midkiff

326-9807 (Office)
564-1653 (Pager)

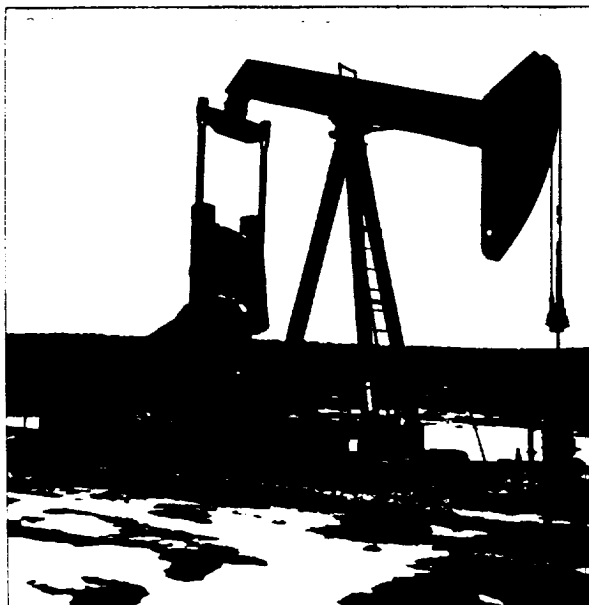
Production Foreman

Cliff Brock

326-9818 (Office)
326-8872 (Pager)

Attachment

Lewis Park #101



Lufkin C160D-173-100
AJAX EA30 7-1/4" x 8"
Currently on Cooper No. 11
12/26/96

Lufkin C160D-173-100
AJAX EA30 7-1/4" x 8"
Currently on Cooper #11

Lewis Park #101

Recommended Vendors

<u>Service</u>	<u>Vendor</u>	<u>Telephone</u>
Downhole Pump	J & L Energy Service (Leo Noyes)	632-5523

LTV Energy Products - DuraTech
Modified API RP11L Sucker Rod Pump Prediction

Ver. 1.1

Well Name : Lewis Park No. 101, 1.75", 73" strk., 10 SPM

English Units Metric Equivalent

*** INPUT VALUES ***

	Conventional	Conventional
Surface Unit Geometry	76	76
API Rod Number	76	76
Fluid Level from Surface	3340 ft.	1018.0 m
Pump Depth	3340 ft.	1018.0 m
Pumping Speed	10.00 SPM	10.00 SPM
Length of Stroke	73.0 in.	185.4 cm
Pump Plunger Diameter	1.7500 in.	44.4500 mm
Specific Gravity of Fluid	1.000	1.000
Tubing is Unanchored - API Size ...	2.875 in.	73.02 mm
Tubing Elastic Constant Et	2.2100E-07 in/lb-ft	4.1402E-07 cm/N-m
Rod Weight in Air (Wr)	1.8550 lb/ft	3.3126 kg/m
Rod Elastic Constant (Ec)	7.9500E-07 in/lb-ft	1.4894E-06 cm/N-m
API Frequency Factor	1.0880	1.0880
Fo/Skr	0.1265	0.1265

*** OUTPUT VALUES ***

Stroke at the Pump	63.32 in.	160.83 cm
Production at 100% Efficiency	226.1 BPD	35.95 m3/day
Production at 80% Efficiency	180.9 BPD	28.76 m3/day
Peak Polished Rod Load (PPRL)	10927 lbs.	48608 N
Minimum Polished Rod Load (MPRL) ...	3976 lbs.	17688 N
Peak Torque (PT)	143075 in-lbs.	16165 N-m
Polished Rod Horsepower (HP)	7.2 hp	5.3 kw
Counterweight Required (CBE)	7570 lbs.	33674 N
Maximum Stress (Top Rod)	18172 psi.	125295 KPa
Minimum Stress (Top Rod)	6613 psi.	45595 KPa

% of Allowable Rod Loading (Top Rod) per API Modified Goodman Diagram:

Service Factor =>	1.0	0.9	0.8	0.7	0.6
LTV Type HS :	25.2	28.0	31.5	36.0	42.0
API Grade D :	44.7	49.7	55.9	63.9	74.5
API Grade C :	59.0	65.5	73.7	84.2	98.3
API Grade K :	63.0	70.0	78.7	90.0	104.9

Rod Design:	Nominal Rod Dia.	Percent of String	Length in Feet	Weight in Air in lbs.
Top				
	7/8"	37.5%	1252.5	2786
	3/4"	62.5%	2087.5	3411
Bottom				

Lewis Park #101

Current -- 12/27/96

DPNO: 4658A

Fruitland Coal

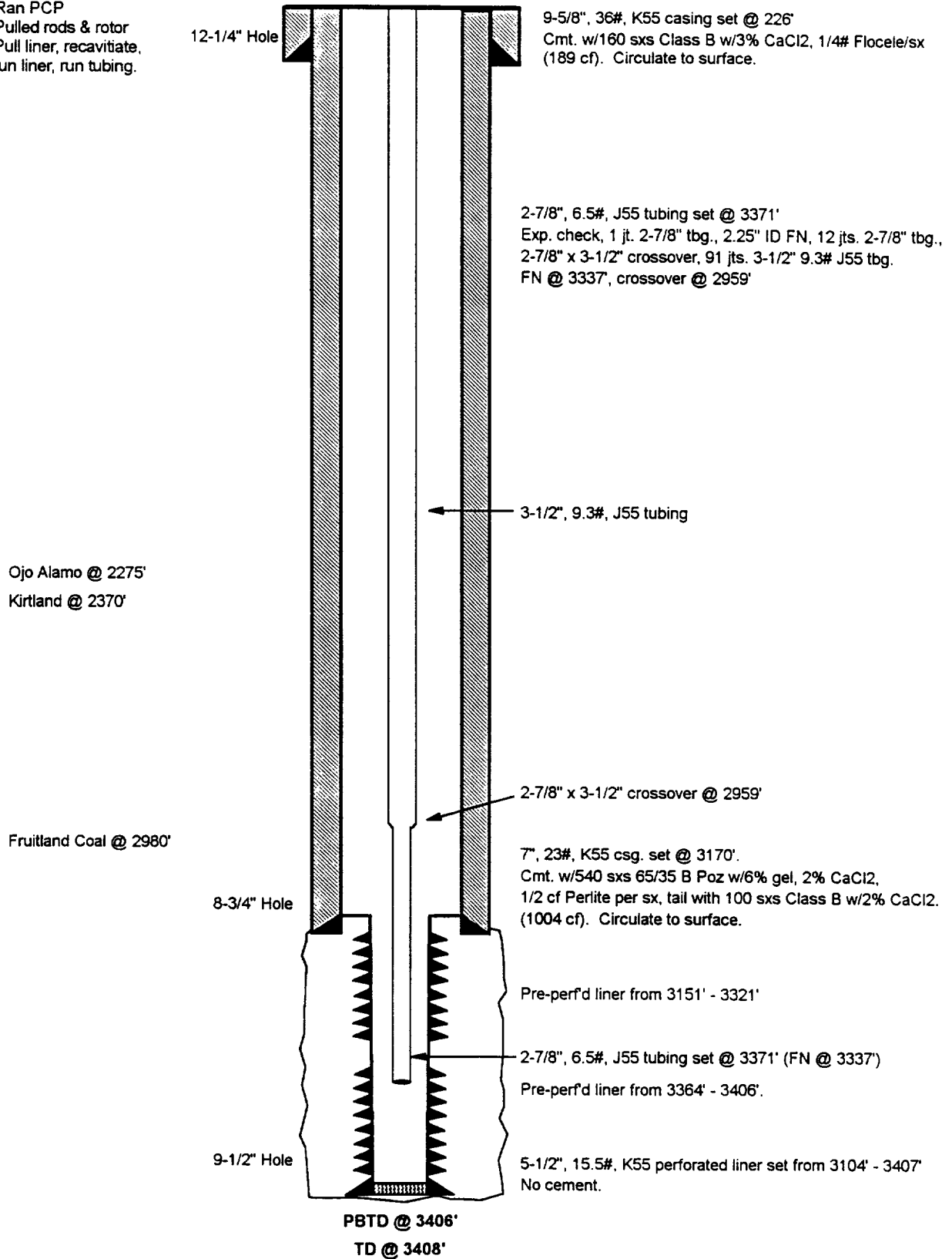
975' FSL, 870' FWL

Sec. 13, T31N, R08W, San Juan County, NM

Lat/Long: 36°56.3860", 107°37.966020"

Spud: 4/21/90
Completed: 12/10/90
Elevation: 6515' GL
6528'

Workovers:
5/16/91 - Ran PCP
3/4/94 - Pulled rods & rotor
11/16/95 - Pull liner, recavitate,
run liner, run tubing.



Burlington Resources Well Data Sheet

DPNO: 4658A Well Name: **LEWIS PARK 101** Meter #: 122922 API: 30-045-2762200 Formation: **FRC**

Footage: 975'S, 870'W Unit: M Sect: 13 Town: 031N Range: 008W County: San Juan State: New Mexico

Dual: **NO** Commingled: **NO** Curr. Compressor: Yes Prev. Compressor: Yes Plunger Lift: No BH Priority:
Install Date: 7/23/96 Last Chg Date: 12/96 BH Test Date: 6/19/96

CASING:

	Surface	Intermediate	Longstring (Liner)	Longstring / Liner
Hole Size:	12 1/4"	8 3/4"	9 1/2"	
Casing:	9 5/8" 36" K-55	7" 23" K-55	5 1/2" 15.5" K-55	
Casing Set @:	226'	3170'	3104'-3407'	
Cement:	160 SXS Class B w/ 3% CaCl ₂ , 1/4" Floccle / SK (189 CF)	540 SXS 65/35 B Poz, w/ 6% Gel, 2% CaCl ₂ , 1/2 cf Perlite per SK, Tail w/ 100 SXS Class B w/ 2% CaCl ₂ (1004 CF)	NONE (Perforated Liner)	
TOC:	Surface By: Circ.	Surface By: Circ.	NA By:	By:

WELL HISTORY:

Orig. Owner: **BR** Spud Date: 04/21/90
GLE: **6515** First Del. Date: 12/10/90
KB: **6528** MCFD: **0**
TD: **3408'** BOPD: **0**
PBD: **3406'** BWPD: **10**
Completion Treatment: **5 Day Corrosion, Ran Liner**

Formation Tops

SJ	CH
NA	MF
OA 2275	PL
KT 2370	GP
FT 2980	GH
PC	GRRS
LW	DK
CK	

CURRENT DATA:

Perfs: **Pre-Perfed Liner: 3151'-3321',
3364'-3406'**

Tubing: **From Bottom: Exp. Check,
1 JT. 2 7/8" 6.5" J-55,
Packer: 2.25" ID F nipple, 12 Jts 2 7/8" to
Dumpp Size: 2 7/8" x 3 1/2" X-over, 91 Jts
Rod String: 3 1/2" 9.3" J-55 Tubing. set at
3371', SN @ 3337', X-over @ 2959'**

PULLING HISTORY / REMARKS:

Last Rig Date: 11/6/95	Last Rig AFE Type: 14	Last Workover: 11/6/95	Last WO AFE Type: 14
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**5/16/91 - Ran PCP
3/4/94 - Pulled Rods and Rotor
11/6/95 - Pull Liner, Recorvitate, Run Liner, Run tubing**

Workover Required: Yes
Proposed Project Type: Install PCP or Rod Pump
Proposed Project Status: Inventoried
Future Project Type: None Required
Future Project Status: N/A
Reviewed By: Kevin Midkiff
Date Reviewed: 12/26/96
Date Printed: 12/26/96