

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other: COAL BED METHANE		5. Lease Serial No. NMSF080647
2. Name of Operator BP AMERICA PRODUCTION CO		6. If Indian, Allottee or Tribe Name EASTERN NAVAJO
Contact: CHERRY HLAVA E-Mail: hlavacl@bp.com		7. If Unit or CA/Agreement, Name and/or No. NMNM78391M
3a. Address PO BOX 3092 HOUSTON, TX 77253	3b. Phone No. (include area code) Ph: 281.366.4081	8. Well Name and No. GALLEGOS CANYON UNIT 562
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 22 T29N R12W SENW 2030FNL 2440FWL		9. API Well No. 30-045-30277-00-S1
		10. Field and Pool, or Exploratory BASIN FRUITLAND COAL
		11. County or Parish, and State SAN JUAN COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

The above mentioned well lacks the ability to flow and limited remaing reserves. BP believes there is no further potential for this well & request permission to P&A the entire wellbore.

Please see the attached P&A procedure.



14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #83114 verified by the BLM Well Information System For BP AMERICA PRODUCTION CO, sent to the Farmington Committed to AFMSS for processing by STEVE MASON on 03/24/2010 (10SXM0692SE)	
Name (Printed/Typed) CHERRY HLAVA	Title AGENT
Signature (Electronic Submission)	Date 03/23/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By STEPHEN MASON	Title PETROLEUM ENGINEER	Date 03/24/2010
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office Farmington

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ******NMOC**



BP - San Juan Wellwork Procedure

GCU 562

General Information:

Formation:	FC	Job Objective:	Plug & Abandonment
Project #:	To be provided	Date:	March 22, 2010
Engineer:	Nona Morgan	p. 281.366.6208	c. 713-890-2002
Production Contact:	Andy Prada	p. 505-326-9200	c. 505-793-7994
Optimizer:	Butch Stavely	p. 505-326-9250	
Lead Tech.	Travis Bandy	p. 505-326-9227	c. 505-486-0982

Well Information:

API Number: 30-045-30277
BP WI:
Run #:
Lease FLAC:
Well FLAC:
Surface Location: Unit F - Sec 22 - T29N
- R12W
GPS Coordinates Lat. 36.71385 Long
108.08717
Meter # 98147
Cost Center:
Compressed (Y/N): Y
Restrictions: N/A
Regulatory Agency: BLM & NMOCD

Production Data:

Tubing Pressure: N/A
Casing Pressure: 80 psi
Line Pressure: 150 psi
Pre-rig Gas Rate: <20 MCFD
Anticipated Uplift: 0 MCFD
Water Rate: N/A
CO2 (%): 0.8619%
H2S (PPM): none
Gas BTU: 1071
Specific Gravity 0.6082
Artificial Lift Type: Beampump

Budget and Work Order Information

Rig Budget: _____ **Total AFE Amount:** _____
P&C Budget: _____ **Work Order #:** _____
Swabbing Budget: _____

Basic Job Procedure:

1. MIRU and make connections.
2. Set plugs. NU BOPS. Test
3. Tag Fill. Cleanout wellbore
4. Isolate wellbore to check casing integrity
5. Run CBL of 4-1/2" casing & consult w/ NMOCD
6. Set cement plugs to isolate intervals.
7. Install markers.
8. Rig down move out. Restore location

Safety and Operational Details:

****ALL work shall comply with DWOP E&P Defined Operating Practice****

- No history of Bradenhead issues found in DIMS
- No known restrictions or permits required
- Venting and

ations are still effective until further direction is provided

by the Wells Team. These guidelines are provided in the documents below for requirements related to breaking connections and BOP equipment testing:

Normal Operating Procedures:

- **ADM 5102** Preliminary Well Work Checklist
- **INS 8908-00** Power Down Automation
- **NOP 7805-00** Procedure for Lockout / Tagout for GCU
- **NOP 7801-00** Operating Policy for Simultaneous Operations
- **NOP 7803-01** Procedure For At Risk Well Locations
- **NOP 7804-01** Wellbore Air Purge
- **NOP 7809-00** Spill Reduction Procedure for Wells Team
- **NOP 7811** Site Security for Well Operations
- **NOP 7812-01** Under Balanced Well Control Tripping
- **NOP 7813** San Juan Asset Rig Anchor Safety Plan
- **NOP 7814-02** Procedure for Flowback Operations
- **DWOP** Drilling and Well Operation Policy
- **Dispensations** SJPU and SJS DWOP Dispensations
- **Rig Schedule** SJS Workover / Completion Tentative Rig Schedule NOP-7803-01

Dispensations:

- Section 9.4.1 (Issue #5, May 2003) – Document #K5500000267; Stripping rubber to be used instead of Hydril / Annual Preventer.
- Section 24.2 (Issue #5, May 2003) – Document #K5500000261; No dual mechanical barriers in annulus during all well servicing. Continuous monitoring of wellbore pressures is required during servicing.

Well History: Spud Date 09/2000. Well Serv 5/2007 – Tag fill. 13' of fill. C/O, run tubing & land @ 1577'. Run new pump and sinker bars.

Completion Information

End of Tubing:	1577'	Tubing Size	2-3/8"
Liner Size and Top:	N/A	Casing size	4-1/2"
PBTD:	1595'		

Current Status – Well is shut in and unable to produce. It makes very little fluid, which can be pumped off, but the reservoir pressure is too low to provide any gas flow for any consistent production and continuously run the compressor, thus normally remains shut in. A workover was done in 2007, but no benefit was observed. In this area, the Fruitland and PC gas appears to be the same. There are four other PC wells in the area and this well can not compete with them. The remaining 4 wells should recover PC gas volumes.

Standard Site Preparations & Regulatory Notifications

1. Notify the following Inspectors 48 hours before working on the well;

Charlie Perrin 505-334-6178 ext.11 or Kelly Roberts 505-334-6178 ext. 16 (NMOCD)

Steve Mason 505-599-6364 (BLM)

2. Perform pre-rig site inspection. Per Applicable documents, check for: size of location, (2) gas taps, (3) other wells, (4) other operators, (5) production equipment, (6) wetlands, (7) wash (dikes requirements), (8) H2S, (9) barriers needed to protect equipment, (10) landowner issues, (11) location of pits (buried or lines in pits), (12) raptor nesting, (13) critical location, (14) check anchors, (15) ID wellhead, etc.
Allow 48 hours for One Call if earth pit is required.
3. Identify wellhead for proper flange connections and BOP equipment.
4. Work with GCU through CoW and w/P&S to develop a plan to move or temporarily relocate equipment that prohibits well servicing/plugging objectives.
5. Notify land owners with gas taps on well.
6. Perform and second site visit after lines are marked to ensure all lines locations are clearly marked and that Planning & Scheduling has stripped equipment and set surface barricades as needed.
7. Properly lock out/tag out any remaining production equipment. Ensure all necessary production equipment is isolated (LOTO) including, but not limited to the meter run, automation, and separator, etc.

Initial Well Checks & Preparations:

8. Check gas H2S content and treat if the concentration is > or equal to 10 ppm/Treat for H2S, if necessary per H2S Wells NOTICE.
9. MIRU workover rig. Conduct lifting JHA and fill out permit for removing the Horse's head. Complete necessary paperwork and risk assessment.
10. Check and record tubing, casing and bradenhead pressures daily. **BLOWDOWN** BH pressure as required, especially if there is *evidence of communication between the production casing and bradenhead or the well has a history of bradenhead pressure problems*. Record pressure and notify engineer if BH pressure exceeds 50 psi or if there is any water or gas flow. Ensure production casing and bradenhead valves are double valved, if necessary. Follow guidelines as directed by DWOP.
Double valve all casing strings as required. Check lock down pins on hanger.

11. Pressure test tree and hanger to 200 psi above SITP. Make up 3" flowback line, if necessary and blow down well. Kill with 2% KCL water or fresh water, as necessary. Check all casing strings to ensure no pressure exists on any annulus.

Tag Fill & Cleanout Wellbore

ALL work shall comply with DWOP E&P Defined Operating Practice

**** Check H2S Levels as necessary****

12. RU slickline and set mechanical barriers plugs/bpv as necessary. Blowdown and kill casing strings. RD slickline.
13. Hold JHA and fill out permit for BOP critical lift. Test mechanical barriers as required, if well head has raised neck hanger and bonnet test connection.
14. Reference "No Dual Barrier in Annulus During All Well Servicing" dispensation. (Reference new DWOP guidelines) NU BOPs and diversion spool with 3" outlets and 3" pipe to the blow tank.
15. Pressure test BOPs to 250 psi on the low end and on the high range at 1500 psi.

Use approved "Under Balance Well Control Tripping Procedure". It *is acceptable* to use the USED tubing as workstring, if it appears to have good integrity based on normal inspection procedures.
– WSL's discretion.)

16. RIH to top of perforations at 1318' w/ bit & scraper for 4-1/2" casing and scrape across of perforations to 1530'. TOH w/ scraper and RIH with bailer for 4-1/2" casing. Clean out to 1595'. POH. Or it may be necessary to cleanout using Air Package to 1595'. (Refer to Vendor's Clean out Procedures).

Take necessary precautions to guard against the presence of H2S if treatment done *

17. RIH with 4-1/2" CIBP on workstring and set at 1268'.
18. Load hole and circulate out any produced fluids. Pressure test wellbore to 500 psi for 15 minutes. Monitor bradenhead for indications of communication while this is being done.
19. RU slickline and run Schlumberger CBL for 4-1/2" casing from 1268' to surface. RD slickline. Report casing load, cement quality, and pressure test results, bradenhead pressure and bleed details, and TOC to the BLM, NMOCD, and Production Engineer.

Spot Plug Locations and Pump Cement to plug off Pictured Cliffs & Fruitland Coal intervals:

20. RIH with 2 2/3" open-ended workstring to 1268'. Spot 450' or ~106 sacks - **(71 cu. Ft.)** of G-Class cement on top of CIBP from 1268'-815'. This will isolate the entire PCCF and FT Gas bearing productive intervals. WOC.
21. Based on 4-1/2" CBL forthcoming results, it will be determined if and where cement will be required behind casing to squeeze off the Pictured Cliffs Sandstone and Fruitland Coal productive intervals.

The next steps listed below assume the TOC behind the 4-1/2" casing is available in sufficient quantities to surface and will fully plug off the identified producing intervals from a depth of 1602' to surface.

However, the order and detail of the next steps could change based on the casing pressure tests and CBL results. If necessary, a modified procedure that has been agreed upon by the NMOCD/BLM will be issued at that time to fully isolate and squeeze off any portion of the producing intervals where cement is found to be inadequate according to test reports. *The engineer should be consulted throughout the plugging and abandonment procedures. All CBL and pressure test results will be reported to the onsite NMOCD and BLM representatives.*

Set Cement Plugs to Isolate & Plug off Shallow Productive Zone: Ojo Alamo

22. RIH w/ 2-3/8" workstring and 4-1/2" cement retainer and set @ 550'. POH.
23. RIH with 2-3/8" open-ended workstring to 500'. Spot 500' or ~118 sacks - **(79 cu. Ft.)** of G-Class cement on top of cement retainer from 365' to surface. This will isolate the wellbore from the entire Ojo Alamo horizon to surface.
24. If CBL indicates no cement behind pipe across the Ojo interval, work with engineer to develop plans to perform a squeeze behind pipe from 365' to surface. A review with the Agency will then occur for their approval to proceed.

Final Plugging and Abandonment steps:

25. After completion of the above described or modified cementing procedures, If cement cannot be seen on all annulus and casing strings after removing wellhead, remedial cementing at the surface will be required.
26. Install 4' well marker and identification plate per NMOCD requirements.
27. RU slickline to remove all mechanical barriers and plugs. RD slickline.
28. RD service rig and release all equipment. Remove all Wells Team LOTO equipment.

29. Ensure all well work details and well bore equipment report are entered in DIMS. Print DIMS summary of work and wellbore diagram and put in well file. Notify Sherri Bradshaw and Cherry Hlava of completed P&A for final regulatory agency reporting and database clearing.
30. Submit work request to Planning and Scheduling to prepare location for reclamation and reseeding.

Current Wellbore Diagram



Gallegos Canyon Unit 562
 Fruitland
 API # 30-045-30277
 T-29N, R-12-W, Sec. 22
 San Juan County, New Mexico

History

Spud Date: 09/2000

Well Serv. 5/2007 - Tag fill. 13' of fill, C/O. Run tubing & Land @ 1577'. Run new pump & sinker bars.

Formation Tops

Ojo Alamo 124'
 Fruitland 1,226'
 PC 1,545'

Pump Details(5/2007)

ROD, POLISHED: 1.25 X 14 FT
 RODS, PONY: 0.750 GRD. D
 RODS, PONY: 0.750 GRD. D
 RODS, PONY: 0.750 GRD. D
 RODS: 0.75 X 25 GRD. D
 RODS, SINKER: 1.50 GRD. C
 PUMP, RHAC, 2.0 X 1.25 X 9

Fruitland Coal Perforations (12/2000)

1318' - 1320' w/ 2 jspf
 1345' - 1348' w/ 2 jspf
 1414' - 1424' w/ 2 jspf
 1488' - 1500' w/ 4 jspf
 1516' - 1530' w/ 4 jspf

G.L. 5557'

Deviation

Depth: 141' - 3/4 degrees
 Depth: 647' - 1-1/4 degrees
 Depth: 1142' - 1 degrees
 Depth: 1615' - 1-1/2 degrees

8-3/4" Hole
 7", 20#, J-55 @ 132'
 Cmt w/ 100 sks
 Cement top surface

Tubing Details (5/2007)

Component Detail	Component Type	Size(in)	# Jts	Len (ft)
TUBING HANGER, 2.375 X 7.0	TUBING HANGER	7.027	1	1
TUBING, 2.375, 4.7#, J-55, EI	TUBING JOINTS	2.375	50	1,550.00
NIPPLE, PROFILE, "F", 2.375 C O ID	PROFILE NIPPLE	2.375	1	0.86
MULE SHOE, 2.375 O ID	TUBING JOINTS	2.375	1	16

Frac'd

Frac'd w/ 645 gals of 15% HCl acid then 6, 430# 40/70 & 102, 726# 20/40 Arizona sand w/ 70% Quality foam.

EOT @ 1,577'

6 1/4" Hole
 4 1/2", 11#, @ 1602'
 Cmt w/ 145 sks

PBTD: 1595'
 TD: 1615'

NFM (3/22/10)

Proposed PXA Wellbore Diagram



Gallegos Canyon Unit 562
 Fruitland
 API # 30-045-30277
 T-29N, R-12-W, Sec. 22
 San Juan County, New Mexico

History

Spud Date: 09/2000
 Well Serv. 5/2007 - Tag fill. 13' of fill, C/O. Run tubing & Land @ 1577'. Run new pump & sinker bars.

Formation Tops

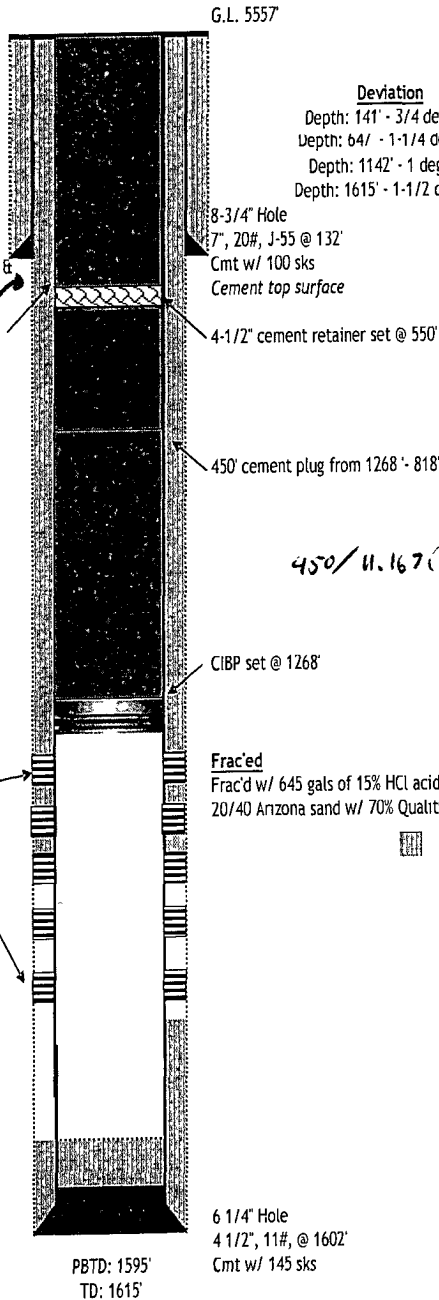
Ojo Alamo	124' 15"
Fruitland	1,226'
PC	1,545'

Handwritten: Kr 314'

Handwritten: Fruitland J 1160'

Fruitland Coal Perforations (12/2000)

1318' - 1320' w/ 2 jspf
 1345' - 1348' w/ 2 jspf
 1414' - 1424' w/ 2 jspf
 1488' - 1500' w/ 4 jspf
 1516' - 1530' w/ 4 jspf



Deviation

Depth: 141' - 3/4 degrees
 Depth: 64' - 1-1/4 degrees
 Depth: 1142' - 1 degrees
 Depth: 1615' - 1-1/2 degrees

$$500 / 11.117 (1.15) = 39 \text{ sks}$$

$$450 / 11.167 (1.15) = 39 \text{ sks}$$

Frac'd

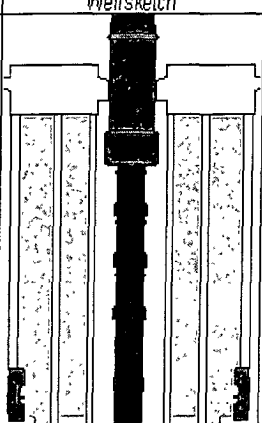
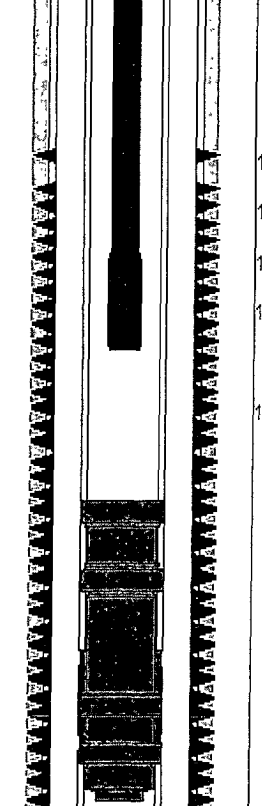
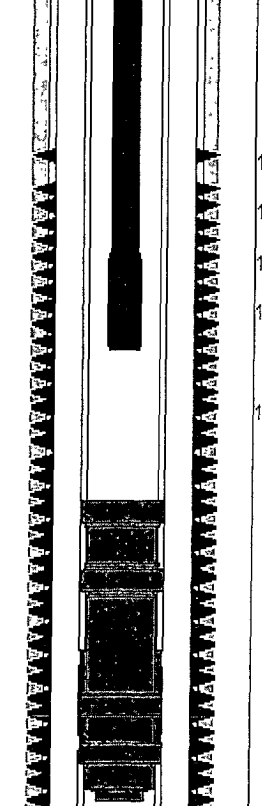
Frac'd w/ 645 gals of 15% HCl acid then 6, 430# 40/70 & 102, 726# 20/40 Arizona sand w/ 70% Quality foam.

6 1/4" Hole
 4 1/2", 11#, @ 1602'
 Cmt w/ 145 sks

NFM (3/22/10)

San Juan - San Juan South

Country: UNITED STATES	County: SAN JUAN	Event: WORKOVER	Wellbore: OH	Orig KB Elev: 5,568.00 ft
Region: NORTH AMERICA	State: NEW MEXICO	Event Start: 5/3/2007	Top TMD: 0.0 ft	Ground Elev: 5,557.00 ft
Bus Unit: NAG SPU	District: FARMINGTON	Event End: 5/4/2007	Bottom TMD: 0.0 ft	KB to GL: 11.0 ft
Perf Unit: SAN JUAN		Objective: TUBING REPAIR	Spud: 9/5/2000	Mud Line Elev: 0.00 ft
Asset: SAN JUAN SOUTH		Contractor: KEY		
Field: BASIN FRUITLAND COAL				

Tubing/CT/SS Components	Min ID	Top	Well sketch	Perf Interval / SPF / Phasing
1 - ROD, POLISHED 1.25 X 14 FT		0.0 ft		
1 - TUBING HANGER, 2.375 X 7.0625	1.995 in	10.0 ft		
50 - TUBING, 2.375, 4 7/8, J-55, EUE T+C	1.995 in	11.0 ft		
1 - RODS, PONY: 0.750 GRD D		14.0 ft		
1 - RODS, PONY: 0.750 GRD D		16.0 ft		
1 - RODS, PONY: 0.750 GRD D		22.0 ft		
59 - RODS: 0.75 X 25 GRD. D		30.0 ft		
				
				1,318.0 ft - 2,638.0 ft - 2 /ft - 120.0 °
				1,345.0 ft - 2,693.0 ft - 2 /ft - 120.0 °
				1,414.0 ft - 2,838.0 ft - 2 /ft - 120.0 °
				1,488.0 ft - 2,988.0 ft - 4 /ft - 120.0 °
2 - RODS, SINKER 1.50 GRD C		1,505.0 ft		1,516.0 ft - 3,046.0 ft - 4 /ft - 120.0 °
1 - PUMP, RHAC, 2.0 X 1.25 X 9		1,555.0 ft		
1 - NIPPLE, PROFILE, "F", 2.375 OD, 1.780 ID	1.780 in	1,561.0 ft		
1 - MULE SHOE, 2.375	1.995 in	1,561.9 ft		

Strings/Assemblies in the Hole or 5/4/2007									
GCU 562				Event: WORKOVER					
Wellbore: OH				Event Dates: 5/3/2007 to 5/4/2007					
SURFACE CASING									
Install Date: 9/5/2000		Top: 10.00 ft		Status: INSTALLED		Pull Date: <no data>			
		Bottom: 131.7 ft							
Component Details	Size	Jts	Length	Weight	Grade	Threads	Min ID	Cond.	Comments
CASING, 7", 20#, J-55, 8 RND NOTCHED COLLAR	7.000 in 7.000 in	3 1	121.03 ft 0.63 ft	20.00 lb/ft 0.00 lb/ft	J-55 J-55	ST+C ST+C	6.456 in 0.000 in	New New	CSG JTS NOTCHED CCL
PRODUCTION CASING 1									
Install Date: 9/5/2000		Top: 10.00 ft		Status: INSTALLED		Pull Date: <no data>			
		Bottom: 1,602.8 ft							
Component Details	Size	Jts	Length	Weight	Grade	Threads	Min ID	Cond.	Comments
CASING, 4-1/2", 10.5#, J-55	4.500 in	36	1,550.79 ft	10.50 lb/ft	J-55	8 RND ST&	4.052 in	New	CSG
FLOAT COLLAR, 4-1/2"	4.500 in	1	0.55 ft	0.00 lb/ft	N-80	ST+C	0.000 in	New	FLOAT CCL
CASING, 4-1/2", 10.5#, J-55	4.500 in	1	40.92 ft	10.50 lb/ft	J-55	8 RND ST&	4.052 in	New	CSG
CASING SHOE, 4-1/2"	4.500 in	1	0.55 ft	0.00 lb/ft	N-80	ST+C	0.000 in	New	FLOAT SHOE
SUCKER RODS									
Install Date: 5/4/2007		Top: 0.00 ft		Status: INSTALLED		Pull Date: <no data>			
		Bottom: 1,564.0 ft							
Component Details	Size	Jts	Length	Weight	Grade	Threads	Min ID	Cond.	Comments
ROD, POLISHED: 1.25 X 14 FT	1.250 in	1	14.00 ft	0.00 lb/ft			0.000 in	S	
RODS, PONY 0.750 GRD D	0.750 in	1	2.00 ft	0.00 lb/ft	D		0.000 in	S	
RODS, PONY 0.750 GRD D	0.750 in	1	6.00 ft	0.00 lb/ft	D		0.000 in	S	
RODS, PONY 0.750 GRD D	0.750 in	1	8.00 ft	0.00 lb/ft	D		0.000 in	S	
RODS 0.75 X 25 GRD D	0.750 in	59	1,475.00 ft	0.00 lb/ft	D		0.000 in	N	
RODS, SINKER 1.50 GRD C	1.500 in	2	50.00 ft	0.00 lb/ft	C		1.500 in	N	
PUMP, RHAC, 2.0 X 1.25 X 9	2.000 in	1	9.00 ft	0.00 lb/ft			1.250 in	UT	
TUBING									
Install Date: 5/4/2007		Top: 10.00 ft		Status: INSTALLED		Pull Date: <no data>			
		Bottom: 1,577.9 ft							
Component Details	Size	Jts	Length	Weight	Grade	Threads	Min ID	Cond.	Comments
TUBING HANGER, 2.375 X 7.0625	7.027 in	1	1.00 ft	0.00 lb/ft		EUE 8RD	1.995 in	S	HUBER HEAD
TUBING, 2.375, 4.7#, J-55, EUE T+C	2.375 in	50	1,550.00 ft	4.70 lb/ft	J-55	EUE T+C	1.995 in	Y	
NIPPLE, PROFILE, "F", 2.375 OD, 1.780	2.375 in	1	0.86 ft	0.00 lb/ft		EUE 8RD	1.780 in	N	
MULE SHOE, 2.375	2.375 in	1	16.00 ft	4.70 lb/ft	J-55	EUE T+C	1.995 in	U	