

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM 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 ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM02862
2. Name of Operator CHESAPEAKE OPERATING INC		6. If Indian, Allottee or Tribe Name
3a. Address OKLAHOMA CITY, OK 73154-0496		7. If Unit or CA/Agreement, Name and/or No. NMNM71016X
3b. Phone No. (include area code) Ph: 405-935-4275		8. Well Name and No. PLU BIG SINKS 22 FEDERAL 1H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 22 T24S R30E SESE Lot P 175FSL 400FEL		9. API Well No. 30-015-37838-00-X1
		10. Field and Pool, or Exploratory UNDESIGNATED
		11. County or Parish, and State EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION
☒ Notice of Intent	☐ Acidize
☐ Subsequent Report	☐ Deepen
☐ Final Abandonment Notice	☐ Fracture Treat
	☐ Production (Start/Resume)
	☐ Reclamation
	☐ Recomplete
	☐ Temporarily Abandon
	☐ Water Disposal
	☐ Water Shut-Off
	☐ Well Integrity
	☒ Other Change to Original PD

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 recomplate 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 recompletion 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.)

ATTENTION WESLEY INGRAM:

Chesapeake, respectfully, requests a quick approval of this Sundry Notice.

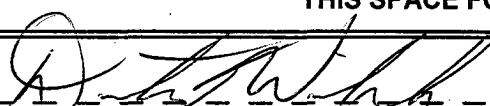
We will be moving Patterson 62 to the PLU Big Sinks 22 Federal 1H next week. This is not the rig that was in the original APD. We have also added a pilot hole and changed the drilling program. Here is a revised schematic, and a rig plat and inventory for Patterson 62. The BOP and choke schematics will stay the same.

We will have 5000 psi rated BOP equipment, but will only test to a working pressure of 3000 psi. Therefore, no shoe tests will be conducted.

OK JFast 11-23-10

OK DW

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #97847 verified by the BLM Well Information System For CHESAPEAKE OPERATING INC, sent to the Carlsbad Committed to AFMSS for processing by KURT SIMMONS on 11/22/2010 (11KMS0266SE)	
Name (Printed/Typed) LINDA GOOD	Title SR. REGULATORY COMPLIANCE SPEC
Signature (Electronic Submission)	Date 11/19/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By 	Title
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.	Date
Office	

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 any statement 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 **

DW ✓

Additional data for EC transaction #97847 that would not fit on the form

32. Additional remarks, continued

Pilot Hole will and Lateral will both TD within the Bone Spring formation. One plug 300' in length will be placed at the pilot hole TD of 10,100' to 9,800'. It will be plugged using 150 sx (40% excess) of 0.96 yield, 17.5 ppg Class H cement.

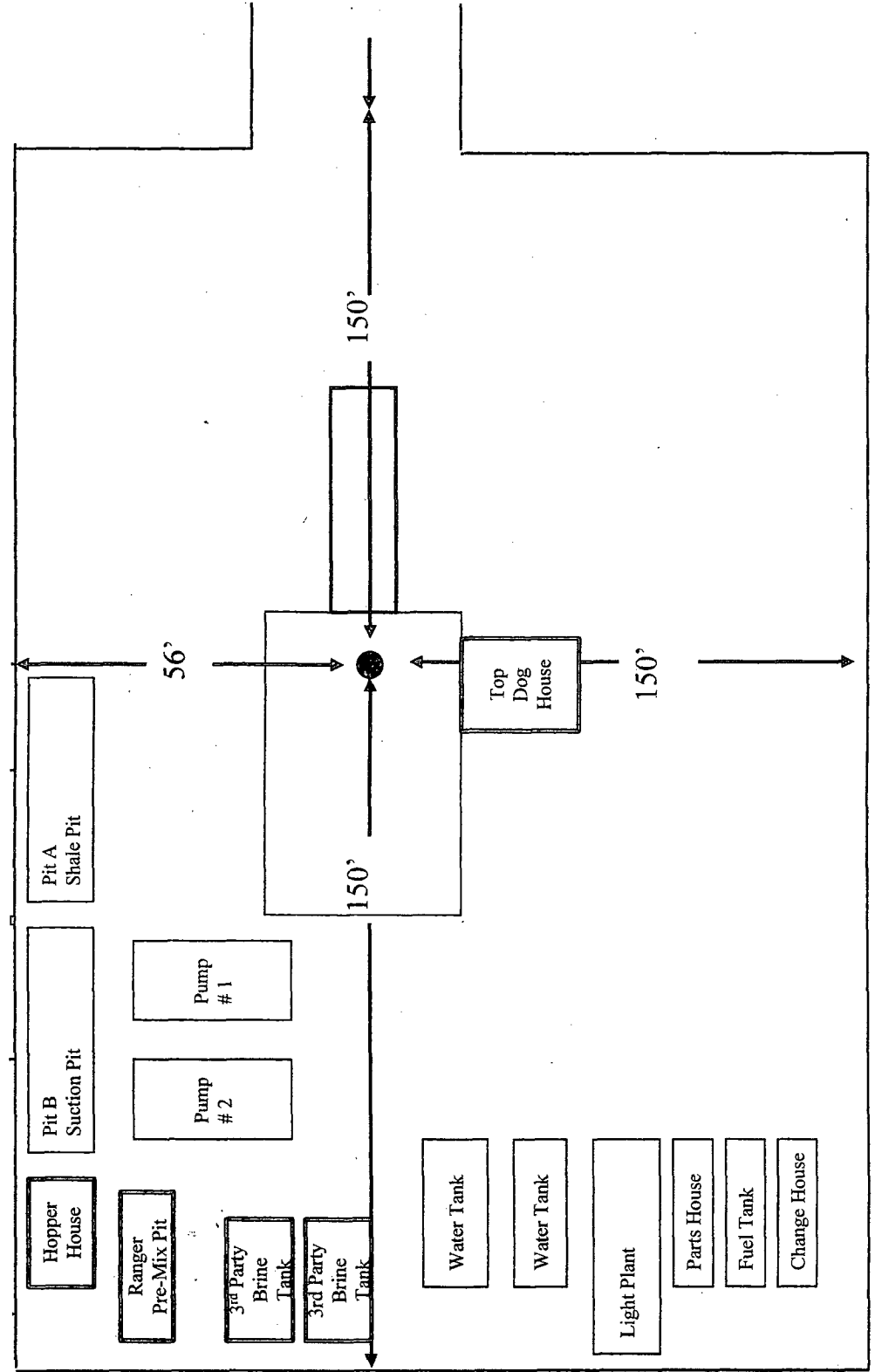
} WOC + Tag
@ 9800' or
shallower.

(CHK PN 631298)

Otherwise OK
DHW

Added 11-23-10 g Just

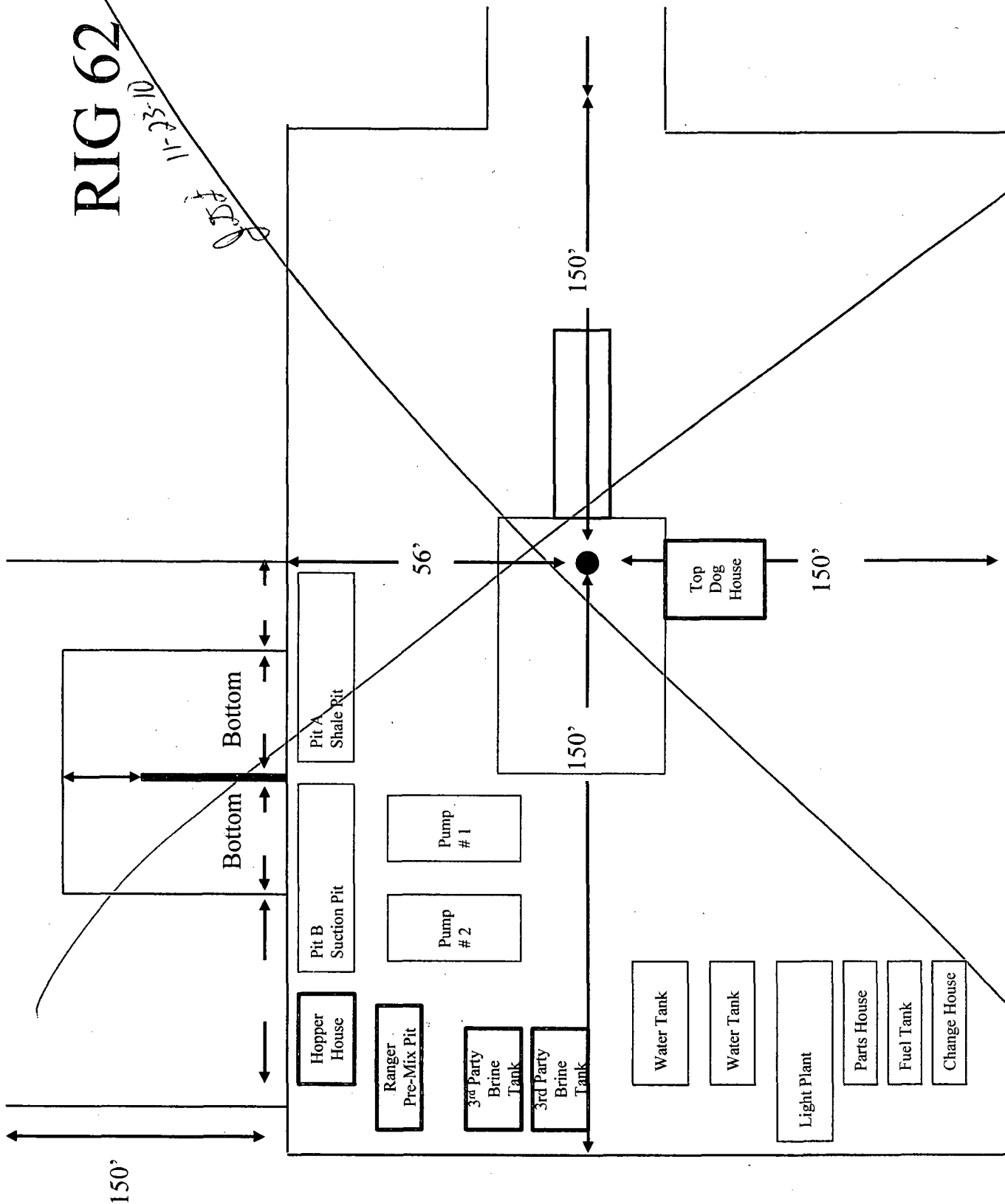
RIG 62

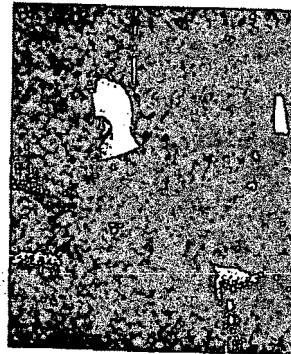


RIG 62

11-23-10

9.55





RIG #62

DRAWWORKS

Skytop Brewster N-75-M (1000HP)
1 1/4" drill line, Parmac 342 auxiliary brake

POWER

(2) Caterpillar 379 engines (550HP each)

LIGHT PLANTS

(2) Caterpillar C-15 engines w/ 320 KW generators

MAST

Ideal 137' w/ 622,000# capacity on 10 lines

SUBSTRUCTURE

Ideal 15' box on box
KB 17' Rotary beam clearance 12' 3"

BLOCK HOOK

McKissick (300 Ton) combo

PUMPS

(2) National 10-P-130 (1300HP each) triplex pumps
Each independently powered by (1) Caterpillar 3512 engine

MUD PITS

(2) tank system - 980 bbl capacity w/ 100 bbl slug pit

SOLIDS EQUIPMENT

Derrick FLC-503 Dual Shaker
Derrick 3-cone desander
Derrick 20-cone desilter
Atmospheric degasser
(5) mud agitators

BOP'S

13 5/8" X 5,000 psi Hydrii annular
13 5/8" X 5,000 psi Shaffer double

ACCUMULATOR

Koomey S-Station, 110 gallon accumulator

CHOKE MANIFOLD

5,000 psi choke manifold

SWIVEL

Continental Emsco (400 Ton)

ROTARY TABLE

National (27 1/2")

DRILL PIPE

4 1/2" drill pipe

DRILL COLLARS

8" and 6 1/2" drill collars
*quantity subject to availability

AUXILIARY EQUIPMENT

Pason EDR (base system)
Fuel Tank - 10,000 gallon capacity
Water Tank - (2) 500 barrel capacity each
Rig Manager Quarters
NOV ST-80 Iron Roughneck
Satellite automatic driller
Matthey survey unit

Revised 10.01.09



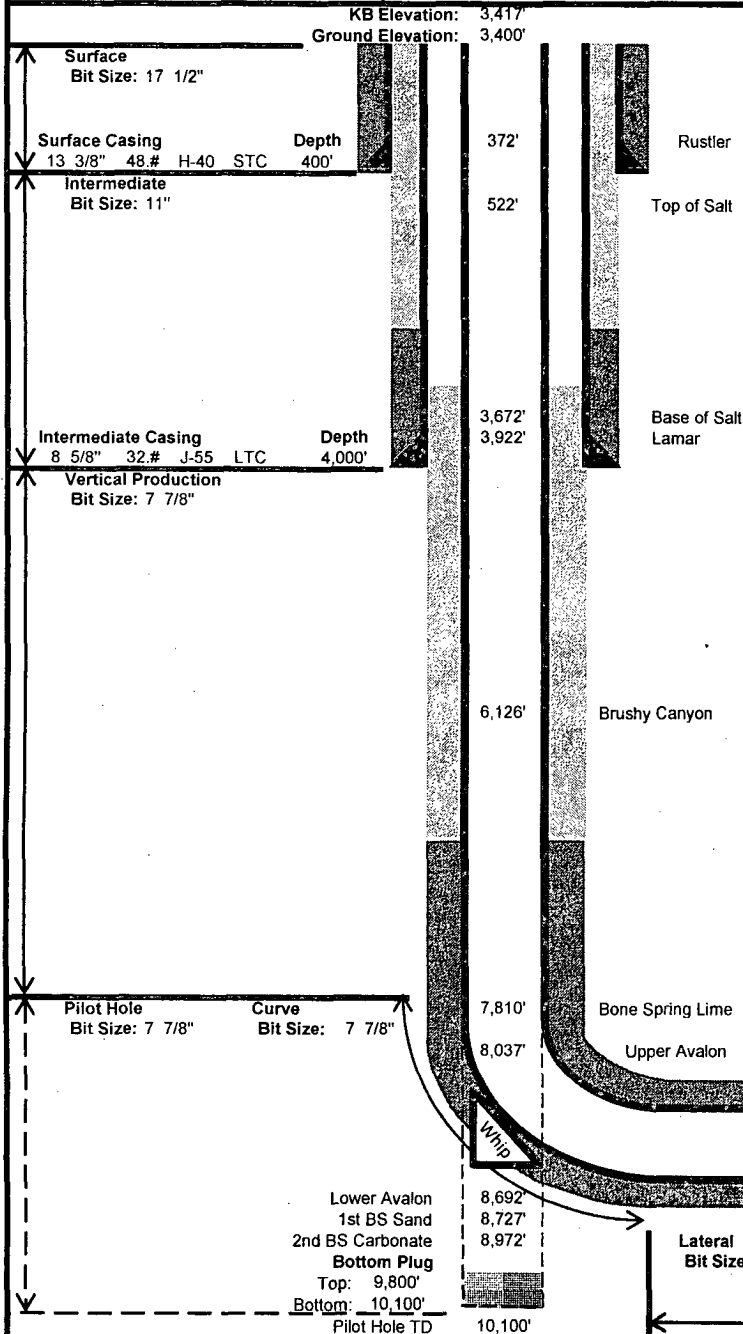
**PATTERSON-UTI
DRILLING COMPANY**



Drilling Engineer: Chris Gray
Superintendent: Cecil Luttrull
Geologist: Robert martin

Well Name: PLU Big Sinks 22 Federal 1H
County, State: Eddy County, NM
Surface Location: 175' FSL 400' FEL, Section 22, Township 24S, Range 30E
BH Location: 330' FNL 400' FEL, Section 22, Township 24S, Range 30E
SHL Latitude: 32.196601 SHL North: 435578
SHL Longitude: -103.861596 SHL East: 687258
BHL Latitude: 32.20869243 BHL North: 440340
BHL Longitude: -103.8615745 BHL East: 687244
Coordinates: NAD 83 Coordinates: NMSPC

Drilling Rig: Patterson 62
Dir. Drilling: TBD
Drilling Mud: TBD
Cement: TBD
Wellhead: Sunbelt
Property Number: 631298
AFE Number: 152353



Wellhead Equipment	
Casing Head	13-3/8" x 13-5/8" 5K SOW
Casing Spool	13-5/8" 5K x 11" 5K
Tubing Spool	11" 5K x 7-1/16" 10K
Required BOP Stack	
13-5/8" 5K- Double, Annular, Rot Head w/Orbit Valve	

Mud				
Depth	Type	Weight	F. Vis	FL
0' - 400'	Spud Mud	8.4-8.7	32-34	NC-NC
400' - 4,000'	Brine	8.7-10	28-30	NC-NC
4,000' - 7,758'	KCl Water	8.4-8.7	28-29	NC-NC
7,758' - 10,100'	KCl Water	8.4-8.7	28-29	NC-NC
7,758' - 8,403'	KCl Water	8.4-8.7	28-29	NC-NC
8,403' - 12,753'	KCl Water	8.4-9	28-32	NC-NC

Cement							
Slurry	Top	Btm	Wt	Yld	%Exc	Bbl	Sx
Surface	Lead	0'	400'	13.5	1.75	150	420
Intermediate	Lead	0'	2,750'	12.0	1.8	150	936
	Tail	2,750'	4,000'	14.2	1.35	150	611
Production	1st Stage Lead	3,500'	7,250'	12.0	1.83	60	617
	1st Stage Tail	7,250'	12,710'	13.2	1.74	60	876

Notes:

Directional Plan						
Target Line:	8169' TVD at 0°VS w/0.3 deg updip					
Target Window:	20' above and 20' below					
	MD	INC	AZM	TVD	VS	DLS
KOP	7,758'	0.00	0.00	7,758'	0°	0.00
EOB	8,403'	90.30	359.83	8,167'	411°	14.00
TD	12,753'	90.30	359.83	8,144'	4,762°	0.00
Hardlines:	Lateral- 330' from all lease lines. Vertical- Actual Lease Lines					
Notes:	SHL is 175' FSL and 400' FEL BHL is 330' FEL and 400' FEL					

	Type	Logs	Interval	Timing	Vendor
LOGS	Mudlog	Mudlogging	Surface to TD	From Spud	TBD
	OH	Triple Combo with Spectral Gamma	Pilot TD to 4000'	After Pilot TD	TBD
	OH	Laterolog and Spectral Gamma	Pilot TD to 7800'	After Pilot TD	TBD
	OH	Dual Induction	7900' to 4000'	After Pilot TD	TBD
	OH	Gamma/Neutron	4000' to Surface	After Pilot TD	TBD
	LWD	Gamma/MWD	Curve and Lateral	While Drilling	TBD



Linda Good
<linda.good@chk.com>
11/24/2010 08:03 AM

To "dustin_winkler@blm.gov" <dustin_winkler@blm.gov>
cc Linda Good <linda.good@chk.com>, Linda Good
<linda.good@chk.com>
bcc
Subject FW: PLU Big Sinks 26 Fed 1H - BLM info

Hi Dusty,

See attachments.

This well has been placed in the Undes. Corral Canyon; Bone Spring, South field. Please let me know if you need anything else.

Thank you,

Linda Good
Sr. Regulatory Compliance Specialist
Southern & Western Division
Chesapeake Energy Corporation
Enterprise Plaza #264
Office: (405) 935-4275
Cell: (405) 245-3623
Fax: (405) 849-4275
E-mail: linda.good@chk.com

From: Chris Gray
Sent: Tuesday, November 23, 2010 3:52 PM
To: Linda Good
Subject: PLU Big Sinks 26 Fed 1H - BLM info

Linda,

The Mud Summary file that is attached is a summary of the mud reports for the Big Sinks 26. It shows that the well was drilled with no more than a 9.5 ppg mud weight with no well control issues. This should be sufficient to show that we do not need a shoe test when we drill out from intermediate casing.

Also attached is file showing specs from the Smith open hole whipstock that we plan to use as requested by Dusty. The specs that apply to our whipstock are either highlighted or underlined.

Let me know if you need anything else.

Thanks,
Chris Gray

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information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately by return email and destroy all copies of the email (and attachments if



any). Big Sinks 26 mud info.pdf Smith Whipstock Info.pdf

Mud Summary Report			Chesapeake Operating, Inc.																	
Well ID: 624842			Well Name: PLU Big Sinks 26 Federal 1H																	
Field: South Eddy			Sect: 26 Town: 24S Rng: 30E County: Eddy State: NM																	
Date/Time	Depth	Type	Locn	Density	F.Vis	Flt	HTHP	Cake	PV	YP	pH	Sand	LGS	HGS	LCM	Calcium	Chlorides	Gel10s	10m	30m
27-Oct-09 05:00				8.4	28															
28-Oct-09 05:00				8.4	28											800	400			
29-Oct-09 12:00		PIT		8.4	28	100		1	1	1	7					800	450	1	1	1
31-Oct-09 12:00		PIT		10	28	100		1	1	1	7.5					4000	189000	1	1	1
01-Nov-09 15:00		PIT		9.7	28	100		1	1	1	10							1	1	1
02-Nov-09 15:00		PIT		9.5	28	100		1	1	1	10	0	0.2	0		200	137000	1	1	1
03-Nov-09 11:00		PIT		9.85	31	100		1	2	3	9	0				200	162000	1	2	
04-Nov-09 10:00		PIT		9.55	28	100		1	1	2	9	0				200	127000	1	1	
05-Nov-09 09:00		PIT		9.9	36	100			8	11	9.5					5000	140000	5	7	
06-Nov-09 09:00		PIT		10	37	100			8	15	8					6000	189000	3	5	
08-Nov-09 04:00		PIT		10	32	100			8	15	9.5					6000	189000	3	5	
10-Nov-09 10:00		FLOW		8.7	28						10									
11-Nov-09 10:00		PIT		8.6	29	100			1	1	9	0				2000	20000	1	1	
12-Nov-09 10:00		PIT		8.9	29	100		1	1	2	9.5	0	0.7	0		1800	50000	1	1	
13-Nov-09 10:00		PIT		8.9	28	100		1	1	1	10		0.9	0		2000	47000	1	1	1
14-Nov-09 16:00		PIT		8.9	28	1		100	1	1	10		1.6	0		1400	31000	1	1	1
15-Nov-09 12:00		PIT		8.9	29	100		1	1	1			2	0		1400	30000	1	1	1
16-Nov-09 11:00				8.9	29	100		1	1	2	9.5		2.1	0			35000	1	1	1
17-Nov-09 09:00		PIT		8.8	34	22		1	7	13	9.5		1.1	0			32000	6	11	
18-Nov-09 10:00				8.85	32	56		1	2	3	10		1.7				30000	1	2	
19-Nov-09 10:00		PIT		8.9	31	55		1	2	3	9		1.8	0		800	33000	1	2	
20-Nov-09 10:00		PIT		9	33	21		1	3	4	9.5		2.3	0		800	32000	2	3	
21-Nov-09 09:45		PIT		8.9	34	23		1	5	7	9.5		0.5	0		2000	51000	4	5	
22-Nov-09 11:00		FLOW		8.9	34	26		1	5	7	9.5		0.8	0		1800	46000	4	5	
23-Nov-09 10:00		PIT		9	35	18		1	6	6	9.5		1.6	0		2000	46000	4	5	
24-Nov-09 08:45		PIT		8.9	37	16		1	8	7	9.5		1.2	0		2000	41000	4	5	
25-Nov-09 09:45		PIT		9	38	14		1	10	7	9		2.1	0		2000	41000	4	5	
26-Nov-09 09:00		PIT		8.9	38	25		1	7	8	9.5					2000	41000	4	5	
27-Nov-09 10:30				9	38	25		1	7	8	9					2000	41000	4	5	
28-Nov-09 09:00		PIT		9	38	25		1	7	8	9.5					2000	41000	4	5	
29-Nov-09 14:00		PIT		9	37	23		1	7	8	9					1860	40000	4	5	
30-Nov-09 11:00		PIT		9	38	23		1	7	8	10					1860	40000	4	5	

Mud Summary Report			Chesapeake Operating, Inc.																	
Well ID: 624842			Well Name: PLU Big Sinks 26 Federal 1H																	
Field: South Eddy			Sect: 26 Town: 24S Rng: 30E County: Eddy State: NM																	
Date/Time	Depth	Type	Locn	Density	F.Vis	Filt	HTHP	Cake	PV	YP	pH	Sand	LGS	HGS	LCM	Calcium	Chlorides	Gel10s	10m	30m
01-Dec-09 09:00			PIT	9.2	37	24		1	7	8	9.5					1860	41000	5	6	
02-Dec-09 20:00			PIT	9.1	41	15		1	12	17	10						68000	5	8	
03-Dec-09 10:00			PIT	9	32	18		1	6	6	11.5		1.1	0			55000	4	5	
04-Dec-09 13:00			PIT	8.9	35	15		1	6	9	10		0.7	0			50000	4	5	
05-Dec-09 12:00			PIT	9.1	35	14		1	6	9	10.5		1.2	0			65000	4	5	
06-Dec-09 11:00			PIT	9	38	15		1	7	8	10		1	0		2000	65000	5	6	
07-Dec-09 14:00			PIT	9.1	38	14		1	7	8	10		1.7	0		2000	57000	5	6	
08-Dec-09 10:00			PIT	9.1	39	14		1	10	7	10		1.6			2400	58000	4	5	
09-Dec-09 14:00			PIT	9.2	44	12		1	12	17	10		2.3	0		2000	60000	5	9	
10-Dec-09 10:00	9996		PIT	9.3	40	14		1	12	17	10		3	0		1480	61000	5	8	
11-Dec-09 11:00			PIT	9.3	40	16		1	12	17	10		3	0		1580	62000	5	9	
12-Dec-09 12:00			PIT	9.3	44	20		1	8	18	9.5		1.8	0		2000	81000	6	7	
13-Dec-09 11:00			PIT	9.3	43	20		1	8	17	8.5		2.4	0		2000	71000	6	7	
14-Dec-09 12:00			PIT	9.3	44	15		1	8	20	8.5		2.3	0		2000	71000	6	7	
15-Dec-09 10:00			PIT	9.3	41	16		1	10	17	9		1.9	0		2000	76000	6	7	
16-Dec-09 15:00			PIT	9.4	40	18		1	12	17	9.5					2000	76000	5	9	
17-Dec-09 14:00			PIT	9.4	41	18		1	10	17	9.5		3.1			2000	75000	6	7	
18-Dec-09 13:00		FLOW		9.4	39	14		1	7	8	10		3.3			2000	78000	5	6	
19-Dec-09 14:00	11966		PIT	9.3	40	13		1	7	8	10		1.7			200	80000	5	6	
20-Dec-09 10:00			PIT	9.4	39	15		1	7	8	10.5		2.2			2000	80000	5	6	
21-Dec-09 10:00			PIT	9.4	37	16		1	6	9	10.5		3.3			1860	75000	4	5	
22-Dec-09 14:00			PIT	9.4	37	17		1	7	8	10.5	0				1860	82000	5	6	
23-Dec-09 14:00			PIT	9.5	40	17		1	7	8	10.5					2000	83000	4	5	
24-Dec-09 10:00			PIT	9.5	36	16		1	7	8	10.5	0				2000	83000	4	5	
25-Dec-09 14:00			PIT	9.5	37	16		1	7	8	10					2000	83000	4	5	

Printed: 15:45 23-Nov-10

RIMBase

Page: 2 of 2

WINDOW SPECIFICATIONS - TRACKMASTER PLUS SYSTEM					
Casing Size	Total Window Length	Full Gauge Window Length	Whip Equivalent Slide angle	Tubular Size To Be Run Through Window	Predicted DLS Based on Tubular Size
(in)	(in)	(in)	(degrees)	(in)	(deg/100 ft)
4 1/2	83	49	2.0	3	15.2
5	99	50	2.2	3 1/4	13.0
5 1/2	121	70	2.0	4	10.7
7	165	88	1.8	5 1/2	10.3
7 5/8	181	104	2.0	6	9.9
8 5/8	196	114	2.1	6 1/2	9.8
9 5/8	212	124	2.1	7 7/8	8.9
10 3/4	254	143	2.1	8 1/4	8.2
11 3/4	322	170	2.0	9 3/4	7.8
13 3/8	380	190	1.8	11 1/2	7.3
16	405	200	2.2	13 3/8	5.7

Section 6

Tables for 8 5/8-inch O.D. Casing Components

Table 30:
Mills

Mill Type	Casing Weight (lb/ft)	Length (in.)	Dressed Diameter (in.)	Fishing Neck O.D. (in.)	Connection Size & Type (in.)	Weight Approx. (lb)	Part Number
FasTrack Tri-Mill (Lead/Follow/Dress Mill)	24-28	143.7	7.88	5.88	NC 46 (4 IF) Pin	~	30017643
	32	143.7	7.75	5.88		~	30017644
FasTrack Bi-Mill	24-28	97.4	7.875	5.88	NC 46 (4 IF) Pin	~	30018126
	36-44	97.4	7.500	5.88		~	30018120

Table 31:
Shear Sub (For Open Hole Applications)

Name	Whip	Length (in.)	O.D. (in.)	Connection Size & Type (in.)	Weight Approx. (lb)	Part Number
Shear Sub 8 5/8" Trackmaster Plus	3001777	35.96	7.326	3 1/2 API IF Pin	~	30017776

Table 32:
Whip Sub-Assemblies

Type	Set	Whip Face Length (in.)	Overall Length (in.)	O.D. (in.)	Shear Force (lb)	Connection Size & Type (in.)	Weight Approx. (lb)	Part Number
Trackmaster Plus	Hydraulic	150.3	200.75	6.98	40,000	4 1/2 API IF Pin	~	30016785
	Mechanical	150.3	300.13	6.98	40,000	4 1/2 API IF Pin	~	30016844
Short	Hydraulic	121.9	177.05	6.98	40,000	4 1/2 API IF Pin	~	30016842
	Mechanical	121.9	176.42	6.98	40,000	4 1/2 API IF Pin	~	30016846

Table 33:
Anchor Sub-Assemblies

Type	Casing Range (lb/ft)	Length (in.)	Body O.D. (in.)	Connection Size & Type (in.)	Weight Approx. (lb)	Part Number
Mechanical Anchor	24-49	54.00	7.00	4 1/2 IF Box	375	AM08696-003
Inflatable Packer (Open Hole Optional)	Hole Size: (7.880 - 10.50 in.)	128.56	7.44	4 1/2 IF Box	~	30013504
Expandable Anchor 7.00 x 9-5/8	8 5/8 24-49 lb	65.25	5.76	3 1/2 IF Box	351	30015648
Crossover	~	15.00	6.98	4 1/2 IF Box x 3 1/2 IF Pin	~	30018911

**Table 34:
BHA Components**

Component	Full Redress Kit	Partial Redress Kit	Service Tooling Assembly	Length (in.)	O.D. (in.)	Top x Btm Connection Size & Type (in.)	Weight Approx. (lb)	Assembly Part Number
Running Tool	40718816	~	~	75.50	5.88	NC 46 Box x NC 46 Box	~	30015191
High Flow Bypass Valve	BPH00076-7	~	~	48.00	4.75	3 1/2 API IF Box x 3 1/2 API REG Box w/ A/Z Modified Boreback	235	BPH00076
Non-Advancing Multicycle Bypass Valve	30016352	30016353	30016351	58.18	5.00	3 1/2 IF Box x 3 1/2 IF Pin	270	30016129
Multicycle Bypass Valve - 6 Cycle	30014171	7054-0086	30014167	58.11	5.00	3 1/2 IF Box x 3 1/2 IF Pin	~	30014162
CircuFlo 6 Cycle w/ Emergency Closure	5601-8100	5601-8101	5601-8050	102.38	5.00	3 1/2 IF Box x 3 1/2 IF Pin	~	5601-8000

**Table 35:
Retrieval Tool**

Type	Casing Weight (lb/ft)	Max Working Load	Length	Grapple I.D. (in.)	O.D. (in.)	Running Connection	Weight Approx. (lb)	Part Number
Hook	all	150000	71	n/a	5	3-1/2 IF Box	~	30012847
Overshot	all	~	~	6.125	7.25	2-3/8 IF Box	165	DPR00086-100
Die Collar	44-49	~	80.875	n/a	7.25	3-1/2 API IF Box	362	DPR00086-725
	36-40	~			7.5	3-1/2 API IF Box	390	DPR00086-750
	24-32	~			7.75	3-1/2 API IF Box	416	DPR00086-775