

Form 1020-1
(February 2005)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1034-0117
Expires March 31, 2007

1a Type of work ☒ DRILL ☐ REENTER			5 Lease Serial No. NM 02953-e	
1b Type of Well ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone			6 If Indian, Allottee or Tribe Name	
2 Name of Operator EOG Resources, Inc.			7 If Unit or CA Agreement, Name and No.	
3a Address P.O. Box 2267 Midland, TX 79702			8 Lease Name and Well No. JAMES RANCH UNIT 113H	
3b Phone No. (include area code) 432-686-3642			9 API Well No. 30-015- 37046	
4 Location of Well (Report location clearly and in accordance with any State requirements) At surface 2000' FSL & 200' FEL (U/L I), Sec. 36, T22S-R30E At proposed prod. zone 2150' FSL & 330' FEL (U/L I), Sec 31, T22S-R31E			10 Field and Pool, or Exploratory Southeast Quabada Ridge Delaware	
14 Distance in miles and direction from nearest town or post office* Approx 15 miles NE from Loving, NM			11 Sec., T, R, M. or Bk. and Survey or Area Section 31, T22S-R31E, N.M.P.M.	
15 Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any) 330'		16 No. of acres in lease 160	17 Spacing Unit dedicated to this well N/2 S/2	
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1528'		19 Proposed Depth 7,540' TVD; 12,172 TMD	20 BLM/BLA Bond No. on file NM2308	
21 Elevations (Show whether DF, KDB, RT, GL, etc.) GL 3316'		22 Approximate date work will start* 03/15/2009	23 Estimated duration 30 days	

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor | 4. Bond to cover the operations unless covered by an existing bond on file (see item 20 above) |
| 2. A Drilling Plan | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office) | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature 	Name (Printed/Typed) Danny G. Glanton	Date 12/19/2008
Title Sr. Lease Operations ROW Representative		
Approved by (Signature)	Name (Printed/Typed)	Date
Title Office		

Application approval 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.

Conditions of approval, if any, are attached.

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

*(Instructions on page 2)

District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Chozos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease 4 Copies
Fee Lease-3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-37046	Pool Code 50443	Pool Name Southeast Quabada Ridge - Delaware
Property Code	Property Name JAMES RANCH UNIT	Well Number 113H
OCRID No. 1377	Operator Name EOG RESOURCES, INC.	Elevation 3316.3'

Surface Location

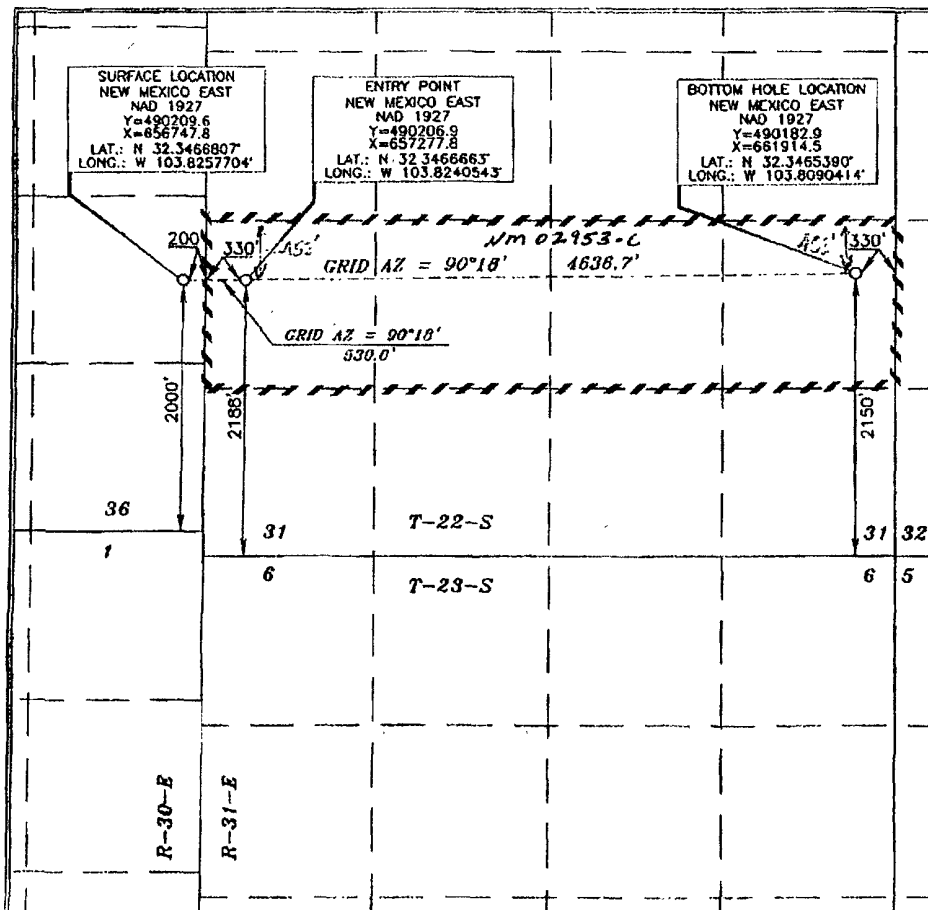
UL or lot no.	Section	Township	Range	Lot km	Feet from the	North/South line	Feet from the	East/West line	County
I	36	22 SOUTH	30 EAST, N.M.P.M.		2000	SOUTH	200	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot km	Feet from the	North/South line	Feet from the	East/West line	County
I	31	22 SOUTH	31 EAST, N.M.P.M.		2150	SOUTH	330	EAST	EDDY

Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Don D. Muth 12/19/08
Signature Date

Donny G. Glatton
Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes or actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

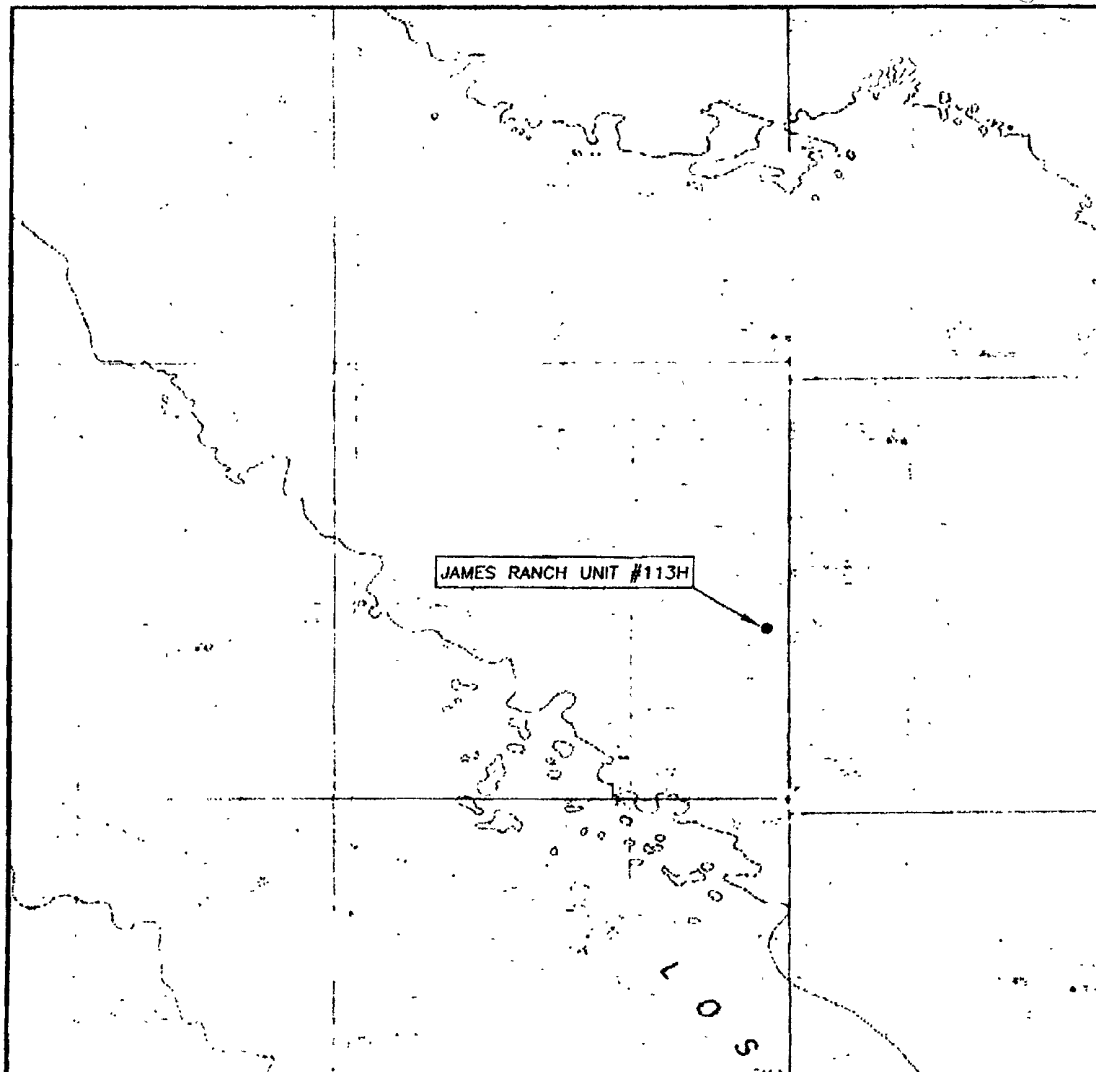
NOVEMBER 18, 2008
Date of Survey

Signature and Seal of
Professional Surveyor

Terry J. Hall 12/2/2008
Certificate Number 15079

WD# 081118WL (Rev. A)(KA)

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'

SEC. 36 TWP. 22-S RGE. 30-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 2000' FSL & 200' FEL

ELEVATION 3316.3'

OPERATOR EOG RESOURCES INC.

LEASE JAMES RANCH UNIT #113H

U.S.G.S. TOPOGRAPHIC MAP
LOS MEDANOS, N.M.

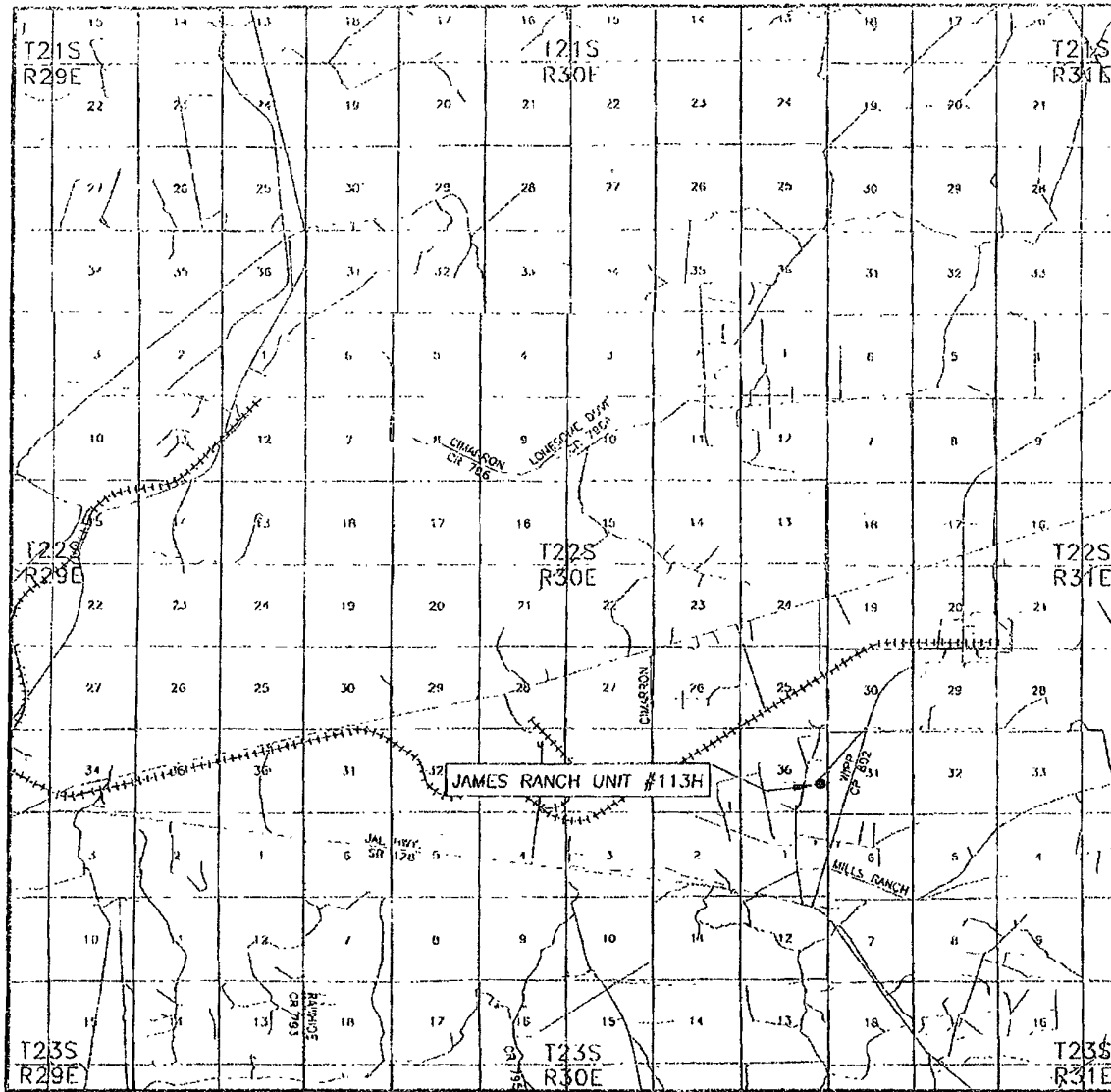
Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR
HOBBS, NEW MEXICO - 575-393-9148



EXHIBIT 2

VICINITY MAP



SEC. 36 TWP. 22-S RGE. 30-E
 SURVEY N.M.P.M.
 COUNTY EDDY
 DESCRIPTION 2000' FSL & 200' FSL
 ELEVATION 3316.3'
 OPERATOR EOG RESOURCES INC.
 LEASE JAMES RANCH UNIT #113H

SCALE: 1" = 2 MILES

Asel Surveying

P.O. BOX 393 -- 310 W. TAYLOR
 HOBBS, NEW MEXICO -- 575-393-9146



DIRECTIONS BEGINNING AT THE INTERSECTION OF STATE HWY. #31 AND (OLD) STATE HWY. #128, GO EAST ON HWY. #128 FOR 10.2 MILES, TURN NORTH ON EDDY COUNTY ROAD #802 (WIPP ROAD) FOR 0.8 MILES, GO WEST ON LEASE ROAD FOR 0.4 MILES, NORTH ON LEASE ROAD FOR 0.6 MILES, EAST FOR 0.2 MILES TO LOCATION.



DOMESTIC DAILY DRILLING REPORT

DATE: 5/5/2009

WELL: JAMES RANCH UNIT #113H ACTIVITY: PREPARE TO SPUD RPT No: 1 DSS: CREATE DATE: 5/5/2009
 FIELD: UNASSIGNED CLASS: DRIL WELL TYPE: DEVO
 STATE: NM EDDY DIVISION: MIDLAND
 AREA: MIDLAND API#: 30-015-37046 AFE#: 104165
 PROGRESS: 0 DAILY ROP: 0.00 WATER DEPTH:
 SPUD DATE: LEAKOFF?:
 RIG CONTR: MCVAY RIG: 4 PH NBR: 281-833-2749 RLS DATE:
 DAILY COST: \$202,968 CUM. COST TO DATE: \$202,968 FOREMAN: LYNN CLAYTON

FROM	TO	HRS	Ph	Op	Activity Last 24 Hours - Operations In Sequence (6 AM - 6 AM)
06:00	18:00	12.00	D	DL	RIG UP, PREPARE TO SPUD

12.00 = Total Hours Today

TRIP#	BIT#	MAKE	SIZE	TYPE	SL#	FROM	TO	LGTH	HRS	ROP	N1	N2	N3	WOB	RPM	I	O	B	G	R

BHA# :					MUD PROPERTIES					HYDRAULICS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Qty	Description	I.D.	O.D.	Length	Time	06:00	Depth:	80	Std Pipe:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

SURVEYS								Mud Used	
MD	Angle	TVD	Dir.	V. Sect.	+N-S	+E-W	D.L.	Mud/Additive	Used

WEATHER									
TIME:	BAR:	PITCH:	deg	VDL:	kips	TEMP:	ROLL:	deg	G & A:
WIND:	/	HEAVE:	ft	STACK:	deg	WAVE:	/	MAX @:	ft



DOMESTIC DAILY DRILLING REPORT

DATE: 5/6/2009

WELL: JAMES RANCH UNIT #113H ACTIVITY: WOC RPT No: 2 DSS: 1 CREATE DATE: 5/6/2009
FIELD: UNASSIGNED CLASS: DRIL WELL TYPE: DEVO
STATE: NM EDDY PLAN TVD/MD: / 12,000 DIVISION: MIDLAND
AREA: MIDLAND CURR TVD/MD: 710 / 710 API#: 30-015-37046 AFE#: 104165
PROGRESS: 630 HRS: 13 00 PROP#: 043606 DAILY ROP: 48 46 WATER DEPTH:
SPUD DATE: 5/5/2009 CASING: 20 in. SHOE TVD/MD: 80 / 80 LEAKOFF?:
RIG CONTR: MCVAY RIG: 4 PH NBR: 281-833-2749 RLS DATE:
DAILY COST: \$56,692 CUM. COST TO DATE: \$259,660 FOREMAN: LYNN CLAYTON

FROM	TO	HRS	Ph	Op	Activity Last 24 Hours - Operations In Sequence (6 AM - 6 AM)
06:00	07:30	1.50	D	OT	SAFETY AND OPERATIONAL MEETING. SPUD @ 0730 HRS. SPUD IN @ 0730 HRS. 5/5/09
07:30	20:30	13.00	D	DL	DRILL 80'- 710', GPM= 456, WOB= 20-55K, ROT= 120 RPM, AVG. PR= 48.5'/HR
20:30	22:30	2.00	D	TR	TRIP OUT OF HOLE, LAYDOWN BHA
22:30	00:00	1.50	D	RC	RIG UP CASING CREW, RUN 17 JTS 11-3/4", 42#, H40, STC CASING. SET @ 704'
00:00	01:30	1.50	D	CM	CEMENT- LEAD 270 SXS 60-40C + 5% SALT + 5# LCM, TAIL- 340 SXS CLASS C + 1% CACL + CELLOFLAKE. DISPLACE WITH 79 BBLS FRESH WATER BUMPED PLUG TO 622 PSI, FLOAT HELD CIRCULATED 210 SXS TO SURFACE. BLM ON LOCATION
01:30	06:00	4.50	D	OT	WOC

24.00 = Total Hours Today

TRIP#	BIT#	MAKE	SIZE	TYPE	SL#	FROM	TO	LGTH	HRS	ROP	N1	N2	N3	WOB	RPM	I	O	B	G	R
1	1	HUGHES	14.750	MX S20	51208/21	80	710	630	13.00	48.46	16	16	16	55.00	120.00					

BHA# : 1					MUD PROPERTIES					HYDRAULICS				
Qty	Description	I.D.	O.D.	Length	Time:	06:00	Depth:	710		Std Pipe:	800			
1	BIT		14.750	1.50	MW:	10	Solids:					PUMP#1	PUMP#2	PUMP#3
1	SHOCK SUB	2.750	8.000	10.75	VISC:		Oil:			# Cyl:	3	3		
1	STEEL DC	2.750	8.000	29.80	pH:	10	10 sec Gel:			SPM:	120			
1	INTERGAL BLADE	2.750	14.750	8.50	Chl:	190000	10 min Gel:			Liner Id:	6.500	6.500		
2	STEEL DC	2.750	8.000	59.85	WL:		CA:			S.L.:	9.00	9.00		
1	CROSSOVER	2.500	6.250	3.50	HTHP:		Pm:			Rod Dia:	3.00	3.00		
15	STEEL DC	2.500	6.250	445.55	FC		Pf:			Eff %:	98	98		
Total BHA Length: 559.45					PV:		Ex Lime:			GPM:	456	0	0	
					YP:		Elec Stab:			SLOW PUMP RATES				
					LCM:		MBT:			SPM:				
										PRSR:				
										AV(DP):	0.0	AV(DC):	72.8	
										Jet Vel:	247.7	PSI Drop:	547.9	
										Bit HP:	145.8	HP/in2:	0.9	

SURVEYS								Mud Used	
MD	Angle	TVD	Dir.	V. Sect.	+N/-S	+E/-W	D.L.	Mud Additive	Used
300	0.50	300		1.31	1.31	0.00	0.17	GEL	65
660	0.50	660		4.45	4.45	0.00	0.00	LIME	16
								PAPER	77
								TRUCKING	1

WEATHER

TIME: BAR: PITCH: deg VDL: kips TEMP: ROLL: deg G & A: deg
WIND: / HEAVE: ft STACK: deg WAVE: / MAX @ ft BJ: deg



DOMESTIC DAILY DRILLING REPORT

DATE: 5/7/2009

WELL: JAMES RANCH UNIT #113H

ACTIVITY: DRILLING

RPT No: 3 DSS: 2 CREATE DATE: 5/7/2009

FIELD: UNASSIGNED

CLASS: DRIL WELL TYPE: DEVO

STATE: NM EDDY

PLAN TVD/MD: / 12,000

DIVISION: MIDLAND

AREA: MIDLAND

CURR TVD/MD: 1 550 / 1,550

API#: 30-015-37046 AFE#: 104155

PROGRESS: 840

HRS: 4 50

PROP#: 043806

DAILY ROP: 186 67 WATER DEPTH:

SPUD DATE: 5/5/2009

CASING: 11 75 In. SHOE TVD/MD: 704 / 704

LEAKOFF?:

RIG CONTR: MCVAY

RIG: 4

PH NBR: 281-833-2749

RLS DATE:

DAILY COST: \$74,162

CUM. COST TO DATE: \$333,822

FOREMAN: LYNN CLAYTON

FROM	TO	HRS	Ph	Op	Activity Last 24 Hours - Operations In Sequence (6 AM - 6 AM)
06 00	01 30	19 50	D	OT	WOB. NIPPLE UP BOPE TEST BOPE 2000# HIGH, 250# LOW, ALL TEST GOOD. TEST CASING TO 1500 PSI. TEST GOOD. PICK UP BHA. TRIP IN HOLE TO 660'. DRILL CEMENT 660'- 710'
01 30	06 00	4 50	D	DL	DRILL 710'- 1550' GPM= 456 M= 100 RPM, WOB= 25K, ROT= 60 RPM, AVG. PR= 136'/HR

24.00 = Total Hours Today

TRIP#	BIT#	MAKE	SIZE	TYPE	SL#	FROM	TO	LGTH	HRS	ROP	N1	N2	N3	WOB	RPM	I	O	B	G	R
2	2	ULTRERRA	11 000	MS1388	6269	710		840	4 50	186 67	10	10	10	25 00	150 00					

BHA# : 2					MUD PROPERTIES					HYDRAULICS				
Qty	Description	I.D.	O.D.	Length	Time	Depth				Std Pipe				
1	BIT		11 000	1.00	MW	10	Solids							
1	MUD MOTOR		7 750	26.70	VISC.	28	Oil							
1	FLOAT SUB	2 500	8 000	2.50	pH		10 sec Gel:							
1	UBHO SUB	2 500	8 000	3.23	Chl	190000	10 min Gel							
1	30" MONEL CLR	2 500	7 750	30.52	WL		CA							
3	STEEL DC	2 750	8 000	84.78	HTHP		Pm							
1	CROSSOVER	2 500	6 250	3.20	FC:		Pf	10						
15	STEEL DC	2 500	6 250	443.89	PV:		Ex Lime							
Total BHA Length 595.82					YP:		Elec Stab							
					LCM		MBT							

SURVEYS								Mud Used	
MD	Angle	TVD	Dir	V. Sect	+N/-S	+E/-W	D L	Mud Additive	Used
300	0.50	300		1.31	1.31	0.00	0.17		
660	0.50	660		4.45	4.45	0.00	0.00		
750	0.53	750	127.54	4.59	4.59	0.33	1.03		
904	0.62	904	146.37	3.46	3.46	1.36	0.14		
1,060	0.53	1,060	173.26	2.04	2.04	1.91	0.18		
1,215	0.62	1,215	193.26	0.51	0.51	1.80	0.14		
1,370	0.97	1,370	188.19	-1.60	-1.60	1.42	0.23		

WEATHER

TIME	BAR	PITCH	deg	VOL	kips	TEMP	ROLL	deg	G & A	deg
WIND	/	HEAVE	ft	STACK	deg	WAVE:	MAX @	ft	BJ	deg



DOMESTIC DAILY DRILLING REPORT

DATE: 5/8/2009

WELL: JAMES RANCH UNIT #113H ACTIVITY: TRIPPING RPT No: 4 DSS: 3 CREATE DATE: 5/8/2009
 FIELD: UNASSIGNED CLASS: DRIL WELL TYPE: DEVO
 STATE: NM EDDY PLAN TVD/MD: / 12,000 DIVISION: MIDLAND
 AREA: MIDLAND CURR TVD/MD: 2,983 / 2,983 API#: 30-015-37046 AFE#: 104165
 PROGRESS: 1443 HRS: 20.00 PROP#: 043606 DAILY ROP: 72.15 WATER DEPTH:
 SPUD DATE: 5/5/2009 CASING: 11.75 in. SHOE TVD/MD: 704 / 704 LEAKOFF?:
 RIG CONTR: MCVAY RIG: 4 PH NBR: 281-833-2749 RLS DATE:
 DAILY COST: \$81,544 CUM. COST TO DATE: \$415,366 FOREMAN: LYNN CLAYTON

FROM	TO	HRS	Ph	Op	Activity Last 24 Hours - Operations In Sequence (6 AM - 6 AM)
06:00	02:00	20 00	D	DL	DRILL 1550'- 2983', GPM= 456, M= 100 RPM, WOB= 30K, ROT= 60 RPM, AVG PR= 72'/HR
02:00	06:00	4 00	D	TR	TRIP FOR MOTOR, STATOR BROKE IN MOTOR

24.00 = Total Hours Today

TRIP#	BIT#	MAKE	SIZE	TYPE	SL#	FROM	TO	LGTH	HRS	ROP	N1	N2	N3	WOB	RPM	I	O	B	G	R
2	2	ULTERRA	11.000	MS1388	6269	710		2,283	24.50	93.18	10	10	10	25.00	160.00					

BHA# : 2					MUD PROPERTIES					HYDRAULICS				
Qty	Description	I.D.	O.D.	Length	Time: 06:00	Depth: 1991	MW: 10 2	Solids:	Visc: 29	Oil:	Std Pipe: 1450	PUMP#1	PUMP#2	PUMP#3
1	BIT		11.000	1.00	pH: 10	10 sec Gel:	Chl: 187000	10 min Gel:	WL:	CA:	# Cyl: 3	3		
1	MUD MOTOR		7.750	26.70	HTHP:	Pm	FC:	Pf			SPM: 120			
1	FLOAT SUB	2.500	8.000	2.50	PV:	Ex Lime:					Liner Id: 6.500	6.500		
1	UBHO SUB	2.500	8.000	3.23	YP:	Elec Stab.					S.L.: 9.00	9.00		
1	30' MONEL CLR	2.500	7.750	30 52	LCM:	MBT:					Rod Dia: 3.00	3.00		
3	STEEL DC	2.750	8 000	84 78							Eff %: 98	98		
1	CROSSOVER	2.500	6.250	3.20							GPM: 456	0	0	
15	STEEL DC	2.500	6.250	443.89							SLOW PUMP RATES			
Total BHA Length: 595.82											SPM:			
											PRSR:			
											AV(DP): 0.0	AV(DC): 196.0		
											Jet Vel: 286.9	PSI Drop: 749.9		
											Bit HP: 199.5	HP/in2: 2.1		

SURVEYS								Mud Used	
MD	Angle	TVD	Dir.	V. Sect.	+N/-S	+E/-W	D.L.	Mud Additive	Used
1,680	1.06	1,680	183.65	-6.93	-6.93	0.78	0.08	GEL	12
1,837	1.32	1,837	177.13	-10.18	-10.18	0.77	0.19	LIME	16
1,930	1.23	1,930	59.20	-10.74	-10.74	1.69	2.35		
2,134	1.76	2,134	76.11	-8.87	-8.87	6.61	0.34		
2,227	0.35	2,227	356.31	-8.24	-8.24	7.98	1.86		
2,333	0.62	2,333	345.39	-7.36	-7.36	7.81	0.27		
2,488	0.53	2,488	355.40	-5.84	-5.84	7.54	0.09		
2,643	0.70	2,643	18.43	-4.23	-4.23	7.78	0.19		
2,790	1.06	2,790	49.15	-2.48	-2.48	9.10	0.40		

WEATHER

TIME: BAR: PITCH: deg VDL: kips TEMP: ROLL: deg G & A: deg
 WIND: / HEAVE: ft STACK: deg WAVE: / MAX @ : ft BJ: deg



DOMESTIC DAILY DRILLING REPORT

DATE: 5/9/2009

WELL: JAMES RANCH UNIT #113H ACTIVITY: PREPARE TO CEMENT RPT No: 5 DSS: 4 CREATE DATE: 5/9/2009
FIELD: UNASSIGNED CLASS: DRILL WELL TYPE: DEVO
STATE: NM EDDY PLAN TVD/MD: / 12.000 DIVISION: MIDLAND
AREA: MIDLAND CURR TVD/MD: 3,873 / 3,873 API#: 30-015-37046 AFE#: 104165
PROGRESS: 890 HRS: 14.00 PROP#: 043606 DAILY ROP: 63.57 WATER DEPTH:
SPUD DATE: 5/5/2009 CASING: 8.625 in. SHOE TVD/MD: 3,872 / 3,872 LEAKOFF?:
RIG CONTR: MCVAY RIG: 4 PH NBR: 281-833-2749 RLS DATE:
DAILY COST: \$281,323 CUM. COST TO DATE: \$694,964 FOREMAN: LYNN CLAYTON

FROM	TO	HRS	Ph	Op	Activity Last 24 Hours - Operations In Sequence (6 AM - 6 AM)
06:00	08:00	2.00	D	TR	TRIP IN HOLE.
08:00	22:00	14.00	D	DL	DRILL 2983'- 3873'. GPM= 456. M= 100 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 64'/HR
22:00	23:00	1.00	D	CA	CIRCULATE
23:00	02:00	3.00	D	TR	TRIP OUT OF HOLE, LAYDOWN BHA
02:00	05:30	3.50	D	RC	RUN 86 JTS. 8-5/8", 32#, J55, LTC CASING. SET @ 3872'
05:30	06:00	0.50	D	OT	RIG UP BJ SERVICE

24.00 = Total Hours Today

TRIP#	BIT#	MAKE	SIZE	TYPE	SL#	FROM	TO	LGTH	HRS	ROP	N1	N2	N3	WOB	RPM	I	O	B	G	R
2	2	ULTERRA	11.000	MS1388	6269	710	3,873	3,173	38.50	82.42	10	10	10	25.00	160.00					

BHA# : 2					MUD PROPERTIES					HYDRAULICS				
Qty	Description	I.D.	O.D.	Length	Time	06 00	Depth:	3873		Std Pipe:	1450			
1	BIT		11.000	1.00	MW:	10.1	Solids:			PUMP#1 PUMP#2 PUMP#3				
1	MUD MOTOR		7.750	26.70	VISC:		Oil:			# Cyl:	3	3		
1	FLOAT SUB	2.500	8.000	2.50	pH:	10	10 sec Gel:			SPM:	120			
1	UBHO SUB	2.500	8.000	3.23	Chl:	185000	10 min Gel:			Liner Id:	6.500	6.500		
1	30' MONEL CLR	2.500	7.750	30.52	WL:		CA:			S.L.:	9.00	9.00		
3	STEEL DC	2.750	8.000	84.78	HTHP:		Pm:			Rod Dia:	3.00	3.00		
1	CROSSOVER	2.500	6.250	3.20	FC:		Pf:			Eff %:	98	98		
15	STEEL DC	2.500	6.250	443.89	PV:		Ex Lime			GPM:	456	0	0	
Total BHA Length: 595.82					YP:		Elec Stab:			SLOW PUMP RATES				
					LCM:		MBT:			SPM:				
										PRSR:				
										AV(DP):	0.0	AV(DC):	196.0	
										Jet Vel:	286.9	PSI Drop:	742.5	
										Bit HP:	197.5	HP/in2:	2.1	

SURVEYS								Mud Used	
MD	Angle	TVD	Dir.	V. Sect.	+N/-S	+E/-W	D.L.	Mud Additive	Used
2,643	0.70	2,643	18.43	-4.23	-4.23	7.78	0.19		
2,790	1.06	2,790	49.15	-2.48	-2.48	9.10	0.40		
2,963	1.41	2,963	57.34	-0.29	-0.29	12.10	0.23		
3,158	0.88	3,158	126.47	0.12	0.12	15.32	0.70		
3,264	1.23	3,264	127.26	-1.06	-1.06	16.88	0.33		
3,420	1.85	3,420	123.66	-3.47	-3.47	20.31	0.40		
3,575	1.06	3,575	138.86	-5.93	-5.93	23.34	0.56		
3,730	0.97	3,730	118.00	-7.63	-7.63	25.44	0.24		
3,824	0.70	3,823	103.39	-8.14	-8.14	26.70	0.36		

WEATHER

TIME: BAR: PITCH: deg VDL: kips TEMP: ROLL: deg G & A deg
WIND: / HEAVE: ft STACK: deg WAVE: / MAX @ : ft BJ. deg



DOMESTIC DAILY DRILLING REPORT

DATE: 5/10/2009

WELL: JAMES RANCH UNIT #113H
FIELD: UNASSIGNED
STATE: NM EDDY
AREA: MIDLAND
PROGRESS: 42
SPUD DATE: 5/5/2009
RIG CONTR: MCVAY
DAILY COST: \$68,123

ACTIVITY: DRILLING

PLAN TVD/MD: / 12.000
CURR TVD/MD: 3,915 / 3,915
HRS: 0.50 PROP#: 043606
CASING: 8.625 in. SHOE TVD/MD: 3,872 / 3,872
RIG: 4
CUM. COST TO DATE: \$763,087

RPT No: 6 DSS: 5 CREATE DATE: 5/10/2009
CLASS: DRIL WELL TYPE: DEVO
DIVISION: MIDLAND
API#: 30-015-37046 AFE#: 104165
DAILY ROP: 84.00 WATER DEPTH:
LEAKOFF?:
PH NBR: 281-833-2749 RLS DATE:
FOREMAN: LYNN CLAYTON

FROM	TO	HRS	Ph	Op	Activity Last 24 Hours - Operations In Sequence (6 AM - 6 AM)
06:00	07:30	1.50	D	CM	CEMENT, LEAD- 800 SXS CLASS C + CELLOFLAKE + 2% SMS. TAIL- 200 SXS CLASS C + 1% CACL + CELLOFLAKE. DISPALCE W/ 233 BBLs FRESH WATER. BUMPED PLUG TO 1750 PSI, FLOATS HELD. CIRCULATED 316 SXS TO SURFACE
07:30	05:00	21.50	D	OT	WOC, TEST BOPE 5000# HIGH, 250# LOW. ALL TEST GOOD. TEST CASING TO 2000#, TEST GOOD. DRILL CEMENT 3826'- 3873'.
05:00	05:15	0.25	D	DL	DRILL 3873'- 3888', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 60'/HR
05:15	05:45	0.50	D	OT	PERFORM 10.0 PPF EMW TEST. TEST GOOD
05:45	06:00	0.25	D	DL	DRILL 3888'- 3915', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 108'/HR

24.00 = Total Hours Today

TRIP#	BIT#	MAKE	SIZE	TYPE	SL#	FROM	TO	LGTH	HRS	ROP	N1	N2	N3	WOB	RPM	I	O	B	G	R
3	3	ULTERRA	7.875	MS1188	3344	3,873		2,377	24.50	97.02	10	10	10	30.00	180.00					

BHA# : 3					MUD PROPERTIES					HYDRAULICS				
Qty	Description	I.D.	O.D.	Length	Time	06:00	Depth			Std Pipe	1450			
1	BIT		7.875	1.00	MW:		Solids:			PUMP#1	PUMP#2	PUMP#3		
1	MUD MOTOR		6.250	27.95	VISC:		Oil:			# Cyl:	3	3		
1	FLOAT SUB	2.500	6.250	3.25	pH:		10 sec Gel:			SPM:	105			
1	UBHO SUB	2.500	6.250	3.35	Chl:		10 min Gel:			Liner Id:	6.500	6.500		
1	30' MONEL CLR	2.500	6.250	30.24	WL:		CA:			S.L.:	9.00	9.00		
15	STEEL DC	2.500	6.250	447.25	HTHP:		Pm:			Rod Dia:	3.00	3.00		
Total BHA Length: 513.04					FC:		Pf:			Eff %:	98	98		
					PV:		Ex Lime:			GPM:	399	0	0	
					YP:		Elec Stab:			SLOW PUMP RATES				
					LCM:		MBT:			SPM:				
										PRSR:				
										AV(DP):	0.0	AV(DC):	425.9	
										Jet Vel:	251.1	PSI Drop:	0.0	
										Bit HP:	0.0	HP/in2:	0.0	

SURVEYS								Mud Used	
MD	Angle	TVD	Dir.	V Sect.	+N/-S	+E/-W	D.L.	Mud Additive	Used
2,643	0.70	2,643	18.43	-4.23	-4.23	7.78	0.19		
2,790	1.06	2,790	49.15	-2.48	-2.48	9.10	0.40		
2,963	1.41	2,963	57.34	-0.29	-0.29	12.10	0.23		
3,158	0.88	3,158	126.47	0.12	0.12	15.32	0.70		
3,264	1.23	3,264	127.26	-1.06	-1.06	16.88	0.33		
3,420	1.85	3,420	123.66	-3.47	-3.47	20.31	0.40		
3,575	1.06	3,575	138.86	-5.93	-5.93	23.34	0.56		
3,730	0.97	3,730	118.00	-7.63	-7.63	25.44	0.24		
3,824	0.70	3,823	103.39	-8.14	-8.14	26.70	0.36		

WEATHER

TIME: BAR. PITCH. deg VDL. kips TEMP: ROLL: deg G & A: deg
WIND: / HEAVE. ft STACK: deg WAVE: / MAX @ ft BJ: deg

WELL: JAMES RANCH UNIT #113H

ACTIVITY: DRILLING

RPT No: 7 DSS: 6 CREATE DATE: 5/11/2009

FIELD: UNASSIGNED

CLASS: DRIL WELL TYPE: DEVO

STATE: NM EDDY

PLAN TVD/MD: / 12,000

DIVISION: MIDLAND

WELL TYPE: DEVO

AREA: MIDLAND

CURR TVD/MD: 6,250 / 6,250

API#: 30-015-37046

AFE#: 104165

PROGRESS: 2335

HRS: 24.00 PROP#: 043606

DAILY ROP:97.29

WATER DEPTH:

SPUD DATE: 5/5/2009

CASING: 8.625 in. SHOE TVD/MD: 3,872 / 3,872

LEAKOFF?:

RIG CONTR: MCVAY

RIG: 4

PH NBR: 281-833-2749

RLS DATE:

DAILY COST: \$36,650

CUM. COST TO DATE: \$799,737

FOREMAN:LYNN CLAYTON

FROM	TO	HRS	Ph	Op	Activity Last 24 Hours - Operations In Sequence (6 AM - 6 AM)
06:00	06:00	24.00	D	DL	DRILL 3915'- 6250', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 97.3'/HR

24.00 = Total Hours Today

TRIP#	BIT#	MAKE	SIZE	TYPE	SL#	FROM	TO	LGTH	HRS	ROP	N1	N2	N3	WOB	RPM	I	O	B	G	R
3	3	ULTERRA	7.875	MS1188	3344	3,873		2,377	24.50	97.02	10	10	10	30.00	180.00					

BHA# : 3					MUD PROPERTIES				HYDRAULICS				
Qty	Description	I.D.	O.D.	Length	Time: 06.00	Depth: 4530			Std Pipe: 1550				
1	BIT		7.875	1.00	MW: 9	Solids.				PUMP#1	PUMP#2	PUMP#3	
1	MUD MOTOR		6.250	27.95	VISC: 29	Oil:				3	3		
1	FLOAT SUB	2.500	6.250	3.25	pH: 10	10 sec Gel: 1			# Cyl: 105				
1	UBHO SUB	2.500	6.250	3.35	Chl. 74000	10 min Gel: 1			SPM: 6.500		6.500		
1	30" MONEL CLR	2.500	6.250	30.24	WL.	CA:			Liner Id: 9.00		9.00		
15	STEEL DC	2.500	6.250	447.25	HTHP:	Pm:			S.L.: 3.00		3.00		
					FC:	Pf:			Rod Dia: 98		98		
					PV: 1	Ex Lime:			Eff %: 399		0		0
					YP: 1	Elec Stab:			GPM:				
					LCM:	MBT:							
Total BHA Length: 513.04													
									SLOW PUMP RATES				
									SPM:				
									PRSR:				
									AV(DP): 0.0 AV(DC): 425.9				
									Jet Vel: 251.1 PSI Drop: 506.6				
									Bit HP: 117.9 HP/in2: 2.4				

SURVEYS								Mud Used	
MD	Angle	TVD	Dir.	V. Sect.	+N/-S	+E/-W	D. L.	Mud Additive	Used
5,322	5.19	5,319	92.33	-23.21	-23.21	95.76	1.19	LIME	5
5,414	5.19	5,410	89.59	-23.35	-23.35	104.08	0.27		
5,507	4.75	5,503	87.25	-23.14	-23.14	112.13	0.52		
5,599	4.75	5,595	90.44	-22.98	-22.98	119.75	0.29		
5,693	5.89	5,688	94.97	-23.43	-23.43	128.44	1.29		
5,785	5.98	5,780	95.76	-24.32	-24.32	137.92	0.13		
5,879	5.98	5,873	96.04	-25.33	-25.33	147.66	0.03		
5,971	5.54	5,965	96.50	-26.34	-26.34	156.83	0.48		
6,064	6.86	6,057	91.70	-27.01	-27.01	166.85	1.52		

WEATHER

TIME:	BAR:	PITCH:	deg	VDL:	kips	TEMP:		ROLL:	deg	G & A:	deg
WIND:	/	HEAVE:	ft	STACK:	deg	WAVE:	/	MAX @:	ft	BJ:	deg



DOMESTIC DAILY DRILLING REPORT

DATE: 5/12/2009

WELL: JAMES RANCH UNIT #113H ACTIVITY: DRILLING RPT No: 8 DSS: 7 CREATE DATE: 5/12/2009
FIELD: UNASSIGNED CLASS: DRIL WELL TYPE: DEVO
STATE: NM EDDY PLAN TVD/MD: / 12,000 DIVISION: MIDLAND
AREA: MIDLAND CURR TVD/MD: 7,427 / 7,435 API#: 30-015-37046 AFE#: 104165
PROGRESS: 1185 HRS: 22.50 PROP#: 043606 DAILY ROP: 52.67 WATER DEPTH:
SPUD DATE: 5/5/2009 CASING: 8.625 In. SHOE TVD/MD: 3,872 / 3,872 LEAKOFF?:
RIG CONTR: MCVAY RIG: 4 PH NBR: 281-833-2749 RLS DATE:
DAILY COST: \$44,816 CUM. COST TO DATE: \$844,553 FOREMAN: LYNN CLAYTON

FROM	TO	HRS	Ph	Op	Activity Last 24 Hours - Operations in Sequence (6 AM - 6 AM)
06:00	17:00	11.00	D	DL	DRILL 6250'- 6830', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 52.7'/HR
17 00	18:30	1.50	D	OT	RUN GYRO
18 30	06 00	11 50	D	DL	DRILL 6830'- 7435', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG PR= 53'/HR

24.00 = Total Hours Today

TRIP#	BIT#	MAKE	SIZE	TYPE	SL#	FROM	TO	LGTH	HRS	ROP	N1	N2	N3	WOB	RPM	I	O	B	G	R
3	3	ULTERRA	7 875	MS1188	3344	3,873		3,562	47.00	75.79	10	10	10	30.00	180.00					

BHA# : 3					MUD PROPERTIES					HYDRAULICS				
Qty	Description	I.D.	O.D.	Length	Time: 06:00	Depth: 7400				Std Pipe: 1850				
1	BIT		7.875	1.00	MW: 9	Solids:					PUMP#1	PUMP#2	PUMP#3	
1	MUD MOTOR		6.250	27.95	VISC: 34	Oil:				# Cyl: 3	105	3		
1	FLOAT SUB	2.500	6.250	3.25	pH: 9	10 sec Gel:				SPM: 6.500	6.500			
1	UBHO SUB	2.500	6.250	3.35	Chl: 12	10 min Gel:				Liner Id: 9.00	9.00			
1	30' MONEL CLR	2.500	6.250	30 24	WL: 12	CA:				S.L.: 3.00	3.00			
15	STEEL DC	2.500	6.250	447.25	HTHP:	Pm:				Rod Dia: 98	98			
					FC:	Pf:				Eff %: 399	0	0		
					PV:	Ex Lime:				GPM:				
					YP:	Elec Stab:				SLOW PUMP RATES				
					LCM:	MBT:				SPM:				
										PRSR:				
										AV(DP): 0.0	AV(DC): 425 9			
										Jet Vel: 251.1	PSI Drop: 506.6			
										Bit HP: 117.9	HP/in2: 2.4			
Total BHA Length: 513.04														



DAILY ACTIVITY SUMMARY

JAMES RANCH UNIT #113H 5/20/2009

FROM	TO	HRS	Ph	Op	Activity Last 24 Hours - Operations In Sequence (6 AM - 6 AM)
16:15	19:15	3.00	D	DL	SLIDE/DRILL 11675'- 11800', GPM= 400, M= 120 RPM, WOB= 35K, ROT= 60 RPM, AVG. PR= 42'/HR
19:15	20:00	0.75	D	SU	SURVEYS
20:00	22:00	2.00	D	DL	SLIDE/DRILL 11800'- 11958', GPM= 400, M= 120 RPM, WOB= 35K, ROT= 60 RPM, AVG. PR= 79'/HR
22:00	23:00	1.00	D	SU	SURVEYS
23:00	01:00	2.00	D	DL	SLIDE/DRILL 11958'- 12090', GPM= 400, M= 120 RPM, WOB= 35K, ROT= 60 RPM, AVG. PR= 66'/HR
01:00	02:00	1.00	D	SU	SURVEYS
02:00	04:00	2.00	D	TR	SHORT TRIP
04:00	05:30	1.50	D	CA	CIRCULATE, SPOT HI-VIS PILL
05:30	06:00	0.50	D	TR	LAYDOWN DRILL STRING



DOMESTIC DAILY DRILLING REPORT

DATE: 5/15/2009

WELL: JAMES RANCH UNIT #113H ACTIVITY: DRILLING RPT No: 11 DSS: 10 CREATE DATE: 5/15/2009
FIELD: UNASSIGNED CLASS: DRIL WELL TYPE: DEVO
STATE: NM EDDY DIVISION: MIDLAND
AREA: MIDLAND PLAN TVD/MD: / 12,000 API#: 30-015-37046 AFE#: 104165
PROGRESS: 585 CURR TVD/MD: 7,445 / 7,550 DAILY ROP: 28.89 WATER DEPTH:
SPUD DATE: 5/5/2009 HRS: 20.25 PROP#: 043606 LEAKOFF?:
RIG CONTR: MCVAY CASING: 8.625 in. SHOE TVD/MD: 3,872 / 3,872 PH NBR: 281-833-2749 RLS DATE:
DAILY COST: \$86,011 RIG: 4 CUM. COST TO DATE: \$1,071,245 FOREMAN: LYNN CLAYTON

FROM	TO	HRS	Ph	Op	Activity Last 24 Hours - Operations in Sequence (6 AM - 6 AM)
06:00	11:15	5.25	D	DS	SLIDE/ 6965'- 7080', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 23.4'/HR
11:15	11:30	0.25	D	SU	SURVEY
11:30	12:30	1.00	D	DS	SLIDE/7080'-7111', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 31'/HR
12:30	12:45	0.25	D	SU	SURVEY
12:45	13:45	1.00	D	DS	SLIDE/7111'- 7142', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 31'/HR
13:45	14:00	0.25	D	SU	SURVEY
14:00	15:00	1.00	D	DS	SLIDE/7142'- 7173', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 31'/HR
15:00	15:15	0.25	D	SU	SURVEY
15:15	16:15	1.00	D	DS	SLIDE/7173'- 7205', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 32'/HR
16:15	16:30	0.25	D	SU	SURVEY
16:30	17:30	1.00	D	DS	SLIDE/7205'- 7236', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 31'/HR
17:30	17:45	0.25	D	SU	SURVEY

24.00 = Total Hours Today

TRIP#	BIT#	MAKE	SIZE	TYPE	SL#	FROM	TO	LGTH	HRS	ROP	N1	N2	N3	WOB	RPM	I	O	B	G	R
4	4	HUGHES	7.875	GX38	5158487	6,963		587	20.75	28.29	15	15	15	5.00	120.00					

BHA# : 4					MUD PROPERTIES					HYDRAULICS					
Qty	Description	I.D.	O.D.	Length	Time:	06:00	Solids:	MW:	806	Oil:	Std Pipe:	1600	PUMP#1	PUMP#2	PUMP#3
1	BIT		7.875	1.00	Visc:	30	10 sec Gel:	# Cyl:	3	3	SPM:	105			
1	MUD MOTOR		6.250	20.80	pH:	9.0	10 min Gel:	Liner Id:	6.500	6.500	S.L.:	9.00	9.00		
1	FLOAT SUB	2.500	6.250	3.00	Chl:	47000	CA:	Rod Dia:	3.00	3.00	Eff %:	98	98		
1	NON-MAG FLEX JC	2.500	6.250	15.28	WL:		Pm:	GPM:	399	0					
1	UBHO SUB	2.500	6.250	3.40	HTHP:		Pf:	SLOW PUMP RATES							
1	30' MONEL CLR	2.500	6.250	31.02	FC:		Ex Lime:	SPM:			PRSR:				
1	NON-MAG FLEX JC	2.500	6.250	30.82	PV:		Elec Stab:	AV(DP):	0.0	AV(DC):	0.0				
1	NON-MAG FLEX JC	2.500	6.250	30.54	YP:		MBT:	Jet Vel:	246.6	PSI Drop:	43768.8				
Total BHA Length: 135.86					LCM:			Bit HP:	10188.9	HP/in2:	209.0				

SURVEYS								Mud Used	
MD	Angle	TVD	Dir.	V. Sect.	+N/-S	+E/-W	D.L.	Mud Additive	Used
7,226	28.40	7,199	80.48	348.65	-41.84	348.98	8.37	BAR	62
7,257	31.22	7,226	82.42	363.90	-39.56	364.22	9.61	CAUSTIC	6
7,288	33.50	7,252	82.63	380.37	-37.40	380.67	7.36	CMS	19
7,320	35.35	7,278	85.22	398.37	-35.50	398.65	7.37	GEL	18
7,344	3.34	7,331	98.43	-35.32	-35.32	295.68	0.36	LIME	1
7,351	37.72	7,303	88.61	416.80	-34.52	417.08	10.04	MF55	8
7,382	40.63	7,327	90.35	436.38	-34.35	436.65	10.03	SURFAK	1
7,414	43.70	7,351	90.75	457.85	-34.56	458.13	9.63	ZAN	27
7,500	2.46	7,486	101.52	-36.65	-36.65	303.46	0.57		

WEATHER

TIME: BAR: PITCH: deg VDL: kips TEMP: ROLL: deg G & A: deg
WIND: / HEAVE: ft STACK: deg WAVE: / MAX @ : ft BJ: deg



DAILY ACTIVITY SUMMARY

JAMES RANCH UNIT #113H 5/15/2009

FROM	TO	HRS	Ph	Op	Activity Last 24 Hours - Operations In Sequence (6 AM - 6 AM)
17:45	18:45	1.00	D	DS	SLIDE/7236'- 7267', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 31'/HR
18:45	19:00	0.25	D	SU	SURVEY
19:00	20:00	1.00	D	DS	SLIDE/7267'- 7299', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 31'/HR
20:00	20:15	0.25	D	SU	SURVEY
20:15	21:15	1.00	D	DS	SLIDE/7299'- 7330', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 31'/HR
21:15	21:30	0.25	D	SU	SURVEY
21:30	22:30	1.00	D	DS	SLIDE/7330'- 7361', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 31'/HR
22:30	22:45	0.25	D	SU	SURVEY
22:45	23:45	1.00	D	DS	SLIDE/7361'- 7393', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 32'/HR
23:45	00:00	0.25	D	SU	SURVEY
00:00	01:00	1.00	D	DS	SLIDE/7393'- 7424', GPM= 400 M= 120 RPM, WOB= 30K, AVG. PR= 31'/HR
01:00	01:15	0.25	D	SU	SURVEY
01:15	02:15	1.00	D	DS	SLIDE/7424'- 7456'M GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 32'/HR
02:15	02:30	0.25	D	SU	SURVEY
02:30	03:30	1.00	D	DS	SLIDE/7456'- 7487', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 31'/HR
03:30	03:45	0.25	D	SU	SURVEY
03:45	04:45	1.00	D	DS	SLIDE/7487'- 7518', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 31'/HR
04:45	05:00	0.25	D	SU	SURVEY
05:00	06:00	1.00	D	DS	SLIDE/ 7518'- 7550', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 32'/HR



DOMESTIC DAILY DRILLING REPORT

DATE: 5/16/2009

WELL: JAMES RANCH UNIT #113H ACTIVITY: DRILLING RPT No: 12 DSS: 11 CREATE DATE: 5/16/2009
 FIELD: UNASSIGNED CLASS: DRIL WELL TYPE: DEVO
 STATE: NM EDDY PLAN TVD/MD: / 12,000 DIVISION: MIDLAND
 AREA: MIDLAND CURR TVD/MD: 7,563 / 8,093 API#: 30-015-37046 AFE#: 104165
 PROGRESS: 574 HRS: 10.25 PROP#: 043606 DAILY ROP: 56.00 WATER DEPTH:
 SPUD DATE: 5/5/2009 CASING: 8.625 in. SHOE TVD/MD: 3,872 / 3,872 LEAKOFF?:
 RIG CONTR: MCVAY RIG: 4 PH NBR: 281-833-2749 RLS DATE:
 DAILY COST: \$44,516 CUM. COST TO DATE: \$1,115,761 FOREMAN: LYNN CLAYTON

FROM	TO	HRS	Ph	Op	Activity Last 24 Hours - Operations In Sequence (6 AM - 6 AM)
06:00	06:15	0.25	D	SU	SURVEY
06:15	07:15	1.00	D	DS	SLIDE/7550'- 7580', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 31'/HR
07:15	07:30	0.25	D	SU	SURVEY
07:30	08:30	1.00	D	DS	SLIDE/7580'- 7611', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 31'/HR
08:30	08:45	0.25	D	SU	SURVEY
08:45	09:45	1.00	D	DS	SLIDE/7611'- 7642', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 31'/HR
09:45	10:00	0.25	D	SU	SURVEY
10:00	18:00	8.00	D	TR	TRIP FOR LATERAL BHA
18:00	19:00	1.00	D	DS	SLIDE/7642'- 7680', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 38'/HR
19:00	19:15	0.25	D	SU	SURVEY
19:15	20:00	0.75	D	DS	SLIDE/7680'- 7711', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 41.3'/HR
20:00	20:15	0.25	D	SU	SURVEY

24.00 = Total Hours Today

TRIP#	BIT#	MAKE	SIZE	TYPE	SL#	FROM	TO	LGTH	HRS	ROP	N1	N2	N3	WOB	RPM	I	O	B	G	R
5	5	ULTERRA	7.875	MS1188	5544	7,642		2,512	36.00	69.78	10	10	10	30.00	180.00					
4	4	HUGHES	7.875	GX38	5158487	6,963	7,642	618	21.75	28.41	15	15	15	30.00	120.00					

BHA# : 4					MUD PROPERTIES					HYDRAULICS				
Qty	Description	I.D.	O.D.	Length	Time:	06.00	Depth:	7700		Std Pipe:	1750			
1	BIT		7.875	1.00	MW:	9	Solids:					PUMP#1	PUMP#2	PUMP#3
1	MUD MOTOR		6.250	28.70	VISC:	30	Oil:			# Cyl:	3		3	
1	FLOAT SUB	2.500	6.250	3.00	pH:	9	10 sec Gel:			SPM:	105			
1	NON-MAG FLEX JC	2.500	6.250	15.28	Chl:		10 min Gel:			Liner Id:	6.500	6.500		
1	UBHO SUB	2.500	6.250	3.40	WL:		CA			S.L.:	9.00	9.00		
1	30' MONEL CLR	2.500	6.250	31.02	HTHP:		Pm:			Rod Dia:	3.00	3.00		
1	NON-MAG FLEX JO	2.500	6.250	30.82	FC:		Pf:			Eff %:	98	98		
1	NON-MAG FLEX JO	2.500	6.250	30.54	PV:		Ex Lime:			GPM:	399	0	0	
Total BHA Length: 143.76					YP:		Elec Stab:			SLOW PUMP RATES				
					LCM:		MBT:			SPM:				
										PRSR:				
										AV(DP):	0.0	AV(DC):	0.0	
										Jet Vel:	251.1	PSI Drop:	506.6	
										Bit HP:	117.9	HP/in2:	2.4	

SURVEYS								Mud Used	
MD	Angle	TVD	Dir.	V. Sect.	+N/-S	+E/-W	D.L.	Mud Additive	Used
7.663	61.82	7.497	87.28	658.17	-37.52	658.48	6.95		
7.695	64.90	7.511	87.01	686.75	-36.10	687.04	9.65		
7.713	1.23	7.699	105.97	-38.18	-38.18	309.68	0.16		
7.726	67.53	7.524	86.73	715.08	-34.55	715.36	8.52		
7.757	70.87	7.535	86.92	744.02	-32.95	744.30	10.79		
7.788	74.57	7.544	87.56	773.59	-31.52	773.86	12.10		
7.819	78.44	7.551	88.05	803.72	-30.37	803.97	12.58		
7.913	87.14	7.563	90.46	896.88	-29.18	897.13	9.60		
8.006	89.16	7.566	89.67	989.82	-29.28	990.07	2.33		

WEATHER

TIME BAR PITCH: deg VDL: kips TEMP: ROLL: deg G & A: deg
 WIND: / HEAVE: ft STACK: deg WAVE: / MAX @: ft BJ: deg



DAILY ACTIVITY SUMMARY

Date: 5/16/2009

JAMES RANCH UNIT #113H

FROM	TO	HRS	Ph	Op	Activity Last 24 Hours - Operations In Sequence (6 AM - 6 AM)
20:15	21:15	1.00	D	DS	SLIDE/7711'- 7743', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 32'/HR
21:15	21:30	0.25	D	SU	SURVEY
21:30	22:15	0.75	D	DS	SLIDE/7743'- 7774', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 41.3'/HR
22:15	22:30	0.25	D	SU	SURVEY
22:30	23:15	0.75	D	DS	SLIDE/7774'- 7805', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 41.3'/HR
23:15	23:30	0.25	D	SU	SURVEY
23:30	00:15	0.75	D	DS	SLIDE/7805'- 7836', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 41.3'/HR
00:15	00:30	0.25	D	SU	SURVEY
00:30	01:00	0.50	D	DS	SLIDE/ 7836'- 7867', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 62'/HR
01:00	01:15	0.25	D	SU	SURVEY
01:15	02:00	0.75	D	DS	SLIDE/7867'- 7898', GPM= 400, M= 120 RPM, WOB= 30K, AVG. PR= 41.3'/HR
02:00	02:15	0.25	D	SU	SURVEY
02:15	03:45	1.50	D	DL	SLIDE/DRILL 7898'- 7999', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 67'/HR
03:45	04:00	0.25	D	SU	SURVEY
04:00	05:30	1.50	D	DL	SLIDE/DRILL 7999'- 8093', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 62.6'/HR
05:30	06:00	0.50	D	SU	SURVEY



DOMESTIC DAILY DRILLING REPORT

DATE: 5/17/2009

WELL: JAMES RANCH UNIT #113H

ACTIVITY: DRILLING

RPT No: 13 DSS: 12 CREATE DATE: 5/17/2009

FIELD: UNASSIGNED

CLASS: DRILL WELL TYPE: DEVO

STATE: NM EDDY

PLAN TVD/MD: / 12,000

DIVISION: MIDLAND

AREA: MIDLAND

CURR TVD/MD: 7,570 / 8,843

API#: 30-015-37046 AFE#: 104165

PROGRESS: 750

HRS: 9.25 PROP#: 043606

DAILY ROP: 81.08 WATER DEPTH:

SPUD DATE: 5/5/2009

CASING: 8.625 in. SHOE TVD/MD: 3,872 / 3,872

LEAKOFF?:

RIG CONTR: MCVAY

RIG: 4

PH NBR: 281-833-2749

RLS DATE:

DAILY COST: \$66,035

CUM. COST TO DATE: \$1,181,796

FOREMAN: LYNN CLAYTON

FROM	TO	HRS	Ph	Op	Activity Last 24 Hours - Operations In Sequence (6 AM - 6 AM)
06:00	08:00	2.00	D	OT	RIG REPAIR, REPLACE CHAIN SPROCKET
08:00	09:00	1.00	D	DL	SLIDE/DRILL 8093'- 8178', GPM= 400 M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 85'/HR
09:00	09:30	0.50	D	SU	SURVEYS
09:30	11:00	1.50	D	DL	SLIDE/DRILL 8178'- 8301', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 82'/HR
11:00	11:45	0.75	D	SU	SURVEYS
11:45	13:15	1.50	D	DL	SLIDE/DRILL 8301'- 8424', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 82'/HR
13:15	14:00	0.75	D	SU	SURVEYS
14:00	15:30	1.50	D	DL	SLIDE/DRILL 8424'- 8550', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 82'/HR
15:30	16:15	0.75	D	SU	SURVEYS
16:15	17:45	1.50	D	DL	SLIDE/DRILL 8550'- 8674', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 82'/HR
17:45	18:30	0.75	D	SU	SURVEYS
18:30	19:15	0.75	D	DL	SLIDE/DRILL 8674'- 8736', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 82'/HR

24.00 = Total Hours Today

TRIP#	BIT#	MAKE	SIZE	TYPE	SL#	FROM	TO	LGTH	HRS	ROP	N1	N2	N3	WOB	RPM	I	O	B	G	R
5	5	ULTERRA	7.875	MS1188	5544	7,642		1,293	18.50	69.89	10	10	10	30.00	180.00					

BHA# : 4					MUD PROPERTIES					HYDRAULICS				
Qty	Description	I.D.	O.D.	Length	Time:	06:00	Solids:			Std Pipe:	1750			
1	BIT		7.875	1.00	MW:	9	Oil:					PUMP#1	PUMP#2	PUMP#3
1	MUD MOTOR		6.250	28.70	VISC:	32	10 sec Gel:	2		# Cyl:	3	3		
1	FLOAT SUB	2.500	6.250	3.00	pH:	10.0	10 min Gel:	3		SPM:	105			
1	NON-MAG FLEX JC	2.500	6.250	15.28	Chl:	74000	CA:			Liner Id:	6.500	6.500		
1	UBHO SUB	2.500	6.250	3.40	WL:	9	Pm:			S.L.:	9.00	9.00		
1	30' MONEL CLR	2.500	6.250	31.02	HTHP:		Pf:			Rod Dia:	3.00	3.00		
1	NON-MAG FLEX JC	2.500	6.250	30.82	FC:		Ex Lime:			Eff %:	98	98		
1	NON-MAG FLEX JC	2.500	6.250	30.54	PV:	4	Elec Stab:			GPM:	399	0	0	
					YP:	2	MBT:			SLOW PUMP RATES				
					LCM:					SPM:				
										PRSR:				
										AV(DP):	0.0	AV(DC):	0.0	
										Jet Vel:	251.1	PSI Drop:	506.6	
										Bit HP:	117.9	HP/in2:	2.4	

SURVEYS								Mud Used	
MD	Angle	TVD	Dir.	V. Sect.	+N/-S	+E/-W	D.L.	Mud Additive	Used
7,788	74.57	7,544	87.56	773.64	-31.43	773.91	12.10	CAUSTIC	5
7,819	78.44	7,551	87.05	803.76	-30.01	804.01	12.59	CMS	31
7,913	87.14	7,563	90.46	896.90	-28.02	897.14	9.93	MF55	8
8,006	89.16	7,566	89.57	989.85	-28.04	990.09	2.37	SURFAK	4
8,099	89.16	7,567	89.56	1,082.84	-27.33	1,083.08	0.01	TRUCKING	1
8,222	87.67	7,571	88.41	1,205.78	-25.16	1,206.01	1.53	ZAN	15
8,471	90.31	7,575	88.07	1,454.65	-17.51	1,454.83	1.07		
8,595	91.01	7,574	87.86	1,578.59	-13.11	1,578.74	0.59		
8,710	91.89	7,571	89.37	1,693.54	-10.33	1,693.66	1.52		

WEATHER

TIME:	BAR:	PITCH:	deg	VDL:	kips	TEMP:	ROLL:	deg	G & A:	deg	
WIND:	/	HEAVE:	ft	STACK:	deg	WAVE:	/	MAX @:	ft	BJ:	deg



DAILY ACTIVITY SUMMARY

JAMES RANCH UNIT #113H 5/17/2009

FROM	TO	HRS	Ph	Op	Activity Last 24 Hours - Operations in Sequence (6 AM - 6 AM)
19:15	20:15	1.00	D	OT	MOTOR FAILURE. PUMP PIPE SLUG
20:15	04:00	7.75	D	TR	TRIP FOR MOTOR, SEAL OUT OF BEARING.
04:00	04:45	0.75	D	DL	SLIDE/DRILL 8736'- 8798', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 82'/HR
04:45	05:15	0.50	D	SU	SURVEYS
05:15	06:00	0.75	D	DL	SLIDE/DRILL 8798'- 8843', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 60'/HR



DOMESTIC DAILY DRILLING REPORT

DATE: 5/18/2009

WELL: JAMES RANCH UNIT #113H ACTIVITY: DRILLING RPT No: 14 DSS: 13 CREATE DATE: 5/18/2009
FIELD: UNASSIGNED CLASS: DRIL WELL TYPE: DEVO
STATE: NM EDDY DIVISION: MIDLAND
AREA: MIDLAND API#: 30-015-37046 AFE#: 104165
PROGRESS: 1219 HRS: 17.50 PROP#: 043606 DAILY ROP: 69.66 WATER DEPTH:
SPUD DATE: 5/5/2009 CASING: 8.625 in. SHOE TVD/MD: 3,872 / 3,872 LEAKOFF?:
RIG CONTR: MCVAY RIG: 4 PH NBR: 281-833-2749 RLS DATE:
DAILY COST: \$44,743 CUM. COST TO DATE: \$1,226,539 FOREMAN: LYNN CLAYTON

FROM	TO	HRS	Ph	Op	Activity Last 24 Hours - Operations In Sequence (6 AM - 6 AM)
06:00	07:30	1.50	D	DL	SLIDE/DRILL 8843'- 8922', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 53'/HR
07:30	08:15	0.75	D	SU	SURVEYS
08:15	09:45	1.50	D	DL	SLIDE/DRILL 8922'- 9015', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 62'/HR
09:45	10:15	0.50	D	SU	SURVEYS
10:15	11:45	1.50	D	DL	SLIDE/DRILL 9015'- 9109', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 62'/HR
11:45	12:45	1.00	D	SU	SURVEYS
12:45	13:45	1.00	D	DL	SLIDE/DRILL 9109'- 9201', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 92'/HR
13:45	14:15	0.50	D	SU	SURVEYS
14:15	15:15	1.00	D	DL	SLIDE/DRILL 9201'- 9294', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 92'/HR
15:15	15:45	0.50	D	SU	SURVEYS
15:45	16:45	1.00	D	DL	SLIDE/DRILL 9294'- 9387', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 93'/HR
16:45	17:15	0.50	D	SU	SURVEYS

24.00 = Total Hours Today

TRIP#	BIT#	MAKE	SIZE	TYPE	SL#	FROM	TO	LGTH	HRS	ROP	N1	N2	N3	WOB	RPM	I	O	B	G	R
5	5	ULTERRA	7.875	MS1188	5544	7,642		2,512	36.00	69.78	10	10	10	30.00	180.00					

BHA# : 4					MUD PROPERTIES					HYDRAULICS					
Qty	Description	I.D.	O.D.	Length	Time:	06:00	Solids:	MW:	9	Oil:	Std Pipe:	1850	PUMP#1	PUMP#2	PUMP#3
1	BIT		7.875	1.00											
1	MUD MOTOR		6.250	28.70											
1	FLOAT SUB	2.500	6.250	3.00											
1	NON-MAG FLEX JC	2.500	6.250	15.28											
1	UBHO SUB	2.500	6.250	3.40											
1	30' MONEL CLR	2.500	6.250	31.02											
1	NON-MAG FLEX JC	2.500	6.250	30.82											
1	NON-MAG FLEX JC	2.500	6.250	30.54											
Total BHA Length: 143.76					Visc:	32	10 sec Gel:	pH:	9.5	10 min Gel:	# Cyl:	3	3	3	
					Chl:	74000	CA:				SPM:	105			
					WL:	12	Pm:				Liner Id:	6.500	6.500		
					HTHP:		Pf:				S.L.:	9.00	9.00		
					FC:		Ex Lime:				Rod Dia:	3.00	3.00		
					PV:		Elec Stab:				Eff %:	98	98		
					YP:		MBT:				GPM:	399	0	0	
					LCM:						SLOW PUMP RATES				
											SPM:				
											PRSR:				
											AV(DP):	0.0	AV(DC):	0.0	
											Jet Vel:	251.1	PSI Drop:	506.6	
											Bit HP:	117.9	HP/in2:	2.4	

SURVEYS								Mud Used	
MD	Angle	TVD	Dir.	V. Sect.	+N/-S	+E/-W	D.L.	Mud Additive	Used
9,215	87.85	7,584	89.53	2,198.03	-12.86	2,198.20	1.86		
9,308	88.37	7,587	89.88	2,290.98	-12.38	2,291.14	0.67		
9,402	87.67	7,590	88.76	2,384.92	-11.27	2,385.08	1.40		
9,496	88.37	7,593	89.79	2,478.86	-10.08	2,479.01	1.32		
9,589	90.40	7,594	91.09	2,571.84	-10.79	2,572.00	2.59		
9,682	90.04	7,594	90.63	2,664.81	-12.19	2,664.99	0.63		
9,761	90.40	7,594	90.38	2,743.80	-12.89	2,743.98	0.55		
9,870	90.13	7,593	89.88	2,852.80	-13.13	2,852.98	0.52		
9,964	90.13	7,593	89.59	2,946.80	-12.70	2,946.98	0.31		

WEATHER

TIME: BAR: PITCH: deg VDL: kips TEMP: ROLL: deg G & A: deg
WIND: / HEAVE: ft STACK: deg WAVE: / MAX @ : ft BJ: deg



DAILY ACTIVITY SUMMARY

JAMES RANCH UNIT #113H 5/18/2009

FROM	TO	HRS	Ph	Op	Activity Last 24 Hours - Operations In Sequence (6 AM - 6 AM)
17:15	18:30	1.25	D	DL	SLIDE/DRILL 9387'- 9481', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 75'/HR
18:30	19:00	0.50	D	SU	SURVEYS
19:00	20:15	1.25	D	DL	SLIDE/DRILL 9481'- 9575', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 75'/HR
20:15	21:00	0.75	D	SU	SURVEYS
21:00	22:15	1.25	D	DL	SLIDE/DRILL 9575'- 9668', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 75'/HR
22:15	22:45	0.50	D	SU	SURVEYS
22:45	00:00	1.25	D	DL	SLIDE/DRILL 9668'- 9761', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 75'/HR
00:00	00:30	0.50	D	SU	SURVEYS
00:30	01:45	1.25	D	DL	SLIDE/DRILL 9761'- 9855', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 75'/HR
01:45	02:15	0.50	D	SU	SURVEYS
02:15	03:30	1.25	D	DL	SLIDE/DRILL 9855'- 9949', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 75'/HR
03:30	04:00	0.50	D	SU	SURVEYS
04:00	05:15	1.25	D	DL	SLIDE/DRILL 9949'- 10043', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 75'/HR
05:15	05:45	0.50	D	SU	SURVEYS
05:45	06:00	0.25	D	DL	SLIDE/DRILL 10043'- 10062', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 75'/HR

Today's Date: 5/18/2009



CASING AND CEMENTING REPORT

WELLNAME: JAMES RANCH UNIT #113H

WELL ID NO.: 043606

FIELD: UNASSIGNED

API NO.: 30-015-37046

CASING STRING: PRODUCTION

SHOE DEPTH:

ITEM NAME	JOINTS	FOOTAGE	SIZE	WEIGHT	GRADE	CONNECTION

TOTAL LENGTH: 0.00

CEMENTING INFORMATION

STAGE# :

START DATE :

TIME :

REPORT DATE :

LEAD

TAIL

CEMENT TYPE

CEMENT TOP(estimated)

ft

ft

CEMENT TOP(verified)

ft

ft

SLURRY WEIGHT

ppg.

ppg

MIX WATER

gal/sx

gal/sx

WATER TYPE

YIELD

ft3/sx

ft3/sx

SACKS

sx

sx

VOLUME

ft3

ft3

THICKENING TIME

hrs.min

hrs.min

FREE WATER

FLUID LOSS cc/30min

psi

F

cc/30min

psi

F

COMP.STRENGTH

psi in

hrs.min

psi in

hrs.min

RETURNS :

CMT.

bbls.

MUD RETURNS:

DURATION

hrs.min

PLUG@BTM

hrs.min

MAX PUMP PRSR

psi

BUMP PRSR

psi

PUMP RATE

bmp

LEAD ADDITIVES :

TAIL ADDITIVES :



DOMESTIC DAILY DRILLING REPORT

DATE: 5/19/2009

WELL: JAMES RANCH UNIT #113H ACTIVITY: DRILLING RPT No: 15 DSS: 14 CREATE DATE: 5/19/2009
 FIELD: UNASSIGNED CLASS: DRIL WELL TYPE: DEVO
 STATE: NM EDDY PLAN TVD/MD: / 12.000 DIVISION: MIDLAND
 AREA: MIDLAND CURR TVD/MD: 7,624 / 11,080 API#: 30-015-37046 AFE#: 104165
 PROGRESS: 1018 HRS: 17.00 PROP#: 043606 DAILY ROP: 59.88 WATER DEPTH:
 SPUD DATE: 5/5/2009 CASING: 8.625 in. SHOE TVD/MD: 3,872 / 3,872 LEAKOFF?:
 RIG CONTR: MCVAY RIG: 4 PH NBR: 281-833-2749 RLS DATE:
 DAILY COST: \$65,875 CUM. COST TO DATE: \$1,292,414 FOREMAN: LYNN CLAYTON

FROM	TO	HRS	Ph	Op	Activity Last 24 Hours - Operations In Sequence (6 AM - 6 AM)
06:00	07:00	1.00	D	DL	SLIDE/DRILL 10062'- 10138', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 75'/HR
07:00	07:30	0.50	D	SU	SURVEYS
07:30	08:45	1.25	D	DL	SLIDE/DRILL 10138'- 10230', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR=74'/HR
08:45	09:15	0.50	D	SU	SURVEYS
09:15	10:30	1.25	D	DL	SLIDE/DRILL 10230'- 10324', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 75'/HR
10:30	11:15	0.75	D	SU	SURVEYS
11:15	12:30	1.25	D	DL	SLIDE/DRILL 10324'- 10418', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 75'/HR
12:30	13:00	0.50	D	SU	SURVEYS
13:00	14:15	1.25	D	DL	SLIDE/DRILL 10418'- 10513', GPM= 400, M= 120RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 75'/HR
14:15	14:45	0.50	D	SU	SURVEYS
14:45	16:00	1.25	D	DL	SLIDE/DRILL 10513'- 10605', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 75'/HR
16:00	16:45	0.75	D	SU	SURVEYS

24.00 = Total Hours Today

TRIP#	BIT#	MAKE	SIZE	TYPE	SL#	FROM	TO	LGTH	HRS	ROP	N1	N2	N3	WOB	RPM	I	O	B	G	R
5	5	ULTERRA	7.875	MS1188	5544	7,642		3,530	53.00	66.60	10	10	10	30.00	180.00					

BHA# : 4					MUD PROPERTIES					HYDRAULICS				
Qty	Description	I.D.	O.D.	Length	Time	Depth				Std Pipe				
1	BIT		7.875	1.00	MW:	06:00	10250			1850				
1	MUD MOTOR		6.250	28.70	Visc:	9.1	Solids:			PUMP#1	PUMP#2	PUMP#3		
1	FLOAT SUB	2.500	6.250	3.00	pH:	31	Oil:			# Cyl:	3	3		
1	NON-MAG FLEX JO	2.500	6.250	15.28	Chl:	9.5	10 sec Gel:	2		SPM:	105			
1	UBHO SUB	2.500	6.250	3.40	WL:	68000	10 min Gel:	3		Liner Id:	6.500	6.500		
1	30' MONEL CLR	2.500	6.250	31.02	HTHP:	11	CA:			S.L:	9.00	9.00		
1	NON-MAG FLEX JO	2.500	6.250	30.82	PV		Pm:			Rod Dia:	3.00	3.00		
1	NON-MAG FLEX JO	2.500	6.250	30.54	FC:		Pf:			Eff %:	98	98		
Total BHA Length: 143.76					YP:	4	Ex Lime:			GPM:	399	0	0	
					LCM:		MBT:			SLOW PUMP RATES				
										SPM:				
										PRSR:				
										AV(DP):	0.0	AV(DC):	0.0	
										Jet Vel:	251.1	PSI Drop:	512.2	
										Bit HP:	119.2	HP/in2:	2.4	

SURVEYS								Mud Used	
MD	Angle	TVD	Dir.	V. Sect.	+N/-S	+E/-W	D L	Mud Additive	Used
10,245	88.64	7,597	91.00	3,227.72	-14.69	3,227.93	0.38	CAUSTIC	2
10,339	87.05	7,600	90.43	3,321.64	-15.86	3,321.86	1.80	CMS	9
10,434	87.49	7,605	90.22	3,416.52	-16.40	3,416.75	0.51	MF55	9
10,526	88.72	7,608	90.26	3,508.46	-16.78	3,508.69	1.34	SURFAK	3
10,620	89.52	7,609	90.03	3,602.44	-17.02	3,602.68	0.89	ZAN	5
10,714	88.72	7,611	90.83	3,696.42	-17.73	3,696.67	1.20		
10,809	87.32	7,614	92.37	3,791.30	-20.38	3,791.57	2.19		
10,901	87.14	7,618	92.44	3,883.08	-24.23	3,883.38	0.21		
10,996	85.74	7,624	91.64	3,977.80	-27.61	3,978.13	1.70		

WEATHER

TIME: BAR: PITCH: deg VDL: kips TEMP: ROLL: deg G & A: deg
 WIND: / HEAVE: ft STACK: deg WAVE: / MAX @: ft BJ: deg



DAILY ACTIVITY SUMMARY

Date 5/19/2009

JAMES RANCH UNIT #113H

FROM	TO	HRS	Ph	Op	Activity Last 24 Hours - Operations In Sequence (6 AM - 6 AM)
16:45	18:15	1.50	D	DL	SLIDE/DRILL 10605'- 10699', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG PR= 63'/HR
18:15	18:45	0.50	D	SU	SURVEYS
18:45	20:45	2.00	D	DL	SLIDE/DRILL 10699'- 10793', GPM= 400, M= 120 RPM, WOB= 30K, ROT= 60 RPM, AVG. PR= 47'/HR
20:45	21:30	0.75	D	SU	SURVEYS
21:30	23:30	2.00	D	DL	SLIDE/DRILL 10793'- 10888', GPM= 400, M= 120 RPM, WOB= 35K, ROT= 60 RPM, AVG. PR= 47'/HR
23:30	00:15	0.75	D	SU	SURVEYS
00:15	02:15	2.00	D	DL	SLIDE/DRILL 10888'- 10980', GPM= 400, M= 120 RPM, WOB= 35K, ROT= 60 RPM, AVG. PR= 47'/HR
02:15	03:00	0.75	D	SU	SURVEYS
03:00	05:00	2.00	D	DL	SLIDE/DRILL 10980'- 11075', GPM= 400, M= 120 RPM, WOB= 35K, ROT= 60 RPM, AVG. PR= 47'/HR
05:00	05:45	0.75	D	SU	SURVEYS
05:45	06:00	0.25	D	DL	SLIDE/DRILL 11075'-11080', GPM= 400, M= 120 RPM, WOB= 35K, ROT= 60 RPM, AVG. PR= 47'/HR



DOMESTIC DAILY DRILLING REPORT

DATE: 5/20/2009

WELL: JAMES RANCH UNIT #113H

ACTIVITY: LAYDOWN DRILL STRING

RPT No: 16 DSS: 15 CREATE DATE: 5/20/2009

FIELD: UNASSIGNED

CLASS: DRIL

WELL TYPE: DEVO

STATE: NM EDDY

PLAN TVD/MD: / 12,000

DIVISION: MIDLAND

AREA: MIDLAND

CURR TVD/MD: 7.660 / 12,090

API#: 30-015-37046

AFE#: 104165

PROGRESS: 1010

HRS: 14.25

PROP#: 043606

DAILY ROP: 70.88

WATER DEPTH:

SPUD DATE: 5/5/2009

CASING: 8.625

In. SHOE TVD/MD: 3.872 / 3.872

LEAKOFF?:

RIG CONTR: MCVAY

RIG: 4

PH NBR: 281-833-2749

RLS DATE:

DAILY COST: \$60,367

CUM. COST TO DATE: \$1,352,781

FOREMAN: LYNN CLAYTON

FROM	TO	HRS	Ph	Op	Activity Last 24 Hours - Operations in Sequence (6 AM - 6 AM)
06:00	07:00	1.00	D	DL	SLIDE/DRILL 11080'- 11171', GPM= 400, M= 120 RPM, WOB= 35K, ROT= 60 RPM, AVG. PR= 91'/HR
07:00	07:30	0.50	D	SU	SURVEYS
07:30	08:15	0.75	D	DL	DRILL 11171'- 11264', GPM= 400, M= 120 RPM, WOB= 35K, ROT= 60 RPM, AVG. PR= 124'/HR
08:15	08:45	0.50	D	SU	SURVEYS
08:45	09:30	0.75	D	DL	DRILL 11264'- 11358', GPM= 400, M= 120 RPM, WOB= 35K, ROT= 60 RPM, AVG. PR= 124'/HR
09:30	10:00	0.50	D	SU	SURVEY
10:00	10:45	0.75	D	DL	DRILL 11358'- 11454', GPM= 400, M= 120 RPM, WOB= 35K, ROT= 60 RPM, AVG. PR= 124'/HR
10:45	11:15	0.50	D	SU	SURVEYS
11:15	12:45	1.50	D	DL	SLIDE/DRILL 11454'- 11580', GPM= 400, M= 120 RPM, WOB= 35K, ROT= 60 RPM, AVG. PR= 84'/HR
12:45	13:15	0.50	D	SU	SURVEYS
13:15	15:45	2.50	D	DL	SLIDE/DRILL 11580'- 11675', GPM= 400, M= 120 RPM, WOB= 35K, ROT= 60 RPM, AVG. PR= 38'/HR
15:45	16:15	0.50	D	SU	SURVEYS

24.00 = Total Hours Today

TRIP#	BIT#	MAKE	SIZE	TYPE	SL#	FROM	TO	LGTH	HRS	ROP	N1	N2	N3	WOB	RPM	I	O	B	G	R
5	5	ULTERRA	7.875	MS1188	5544	7,642	12,090	4,540	67.25	67.51	10	10	10	30.00	180.00					

BHA# : 4					MUD PROPERTIES					HYDRAULICS				
Qty	Description	I.D.	O.D.	Length	Time:	06 00	Depth:	12090		Std Pipe:	1850			
1	BIT		7.875	1.00	MW:	9.1	Solids:			PUMP#1	PUMP#2	PUMP#3		
1	MUD MOTOR		6.250	28.70	VISC:	35	Oil:			# Cyl:	3	3		
1	FLOAT SUB	2.500	6.250	3.00	pH:	9.5	10 sec Gel:	3		SPM:	105			
1	NON-MAG FLEX JO	2.500	6.250	15.28	Chl:	70000	10 min Gel:	4		Liner Id:	6.500	6.500		
1	UBHO SUB	2.500	6.250	3.40	WL:	9	CA:			S.L.:	9.00	9.00		
1	30' MONEL CLR	2.500	6.250	31.02	HTHP:		Pm.			Rod Dia:	3.00	3.00		
1	NON-MAG FLEX JO	2.500	6.250	30.82	PV:	7	Ex Lime:			Eff %:	98	98		
1	NON-MAG FLEX JO	2.500	6.250	30.54	YP:	8	Elec Stab:			GPM:	399	0	0	
Total BHA Length: 143.76					FC:		Pf:			SLOW PUMP RATES				
					LCM:		MBT:			SPM:				
										PRSR:				
										AV(DP):	0.0	AV(DC):	0.0	
										Jet Vel:	251.1	PSI Drop:	512.2	
										Bit HP:	119.2	HP/in2:	2.4	

SURVEYS								Mud Used	
MD	Angle	TVD	Dir.	V. Sect.	+N/-S	+E/-W	D.L	Mud Additive	Used
11,092	87.23	7,630	92.31	4,073.53	-30.91	4,073.89	1.70	CAUSTIC	2
11,185	87.05	7,635	90.07	4,166.37	-32.84	4,166.75	2.41	CMS	17
11,279	87.05	7,640	88.67	4,260.25	-31.81	4,260.62	1.49	MF55	9
11,375	88.02	7,644	88.73	4,356.15	-29.63	4,356.50	1.01	SURFAK	2
11,501	88.81	7,647	89.80	4,482.09	-28.02	4,482.44	1.06	ZAN	26
11,596	88.81	7,649	91.20	4,577.06	-28.85	4,577.41	1.47		
11,721	86.53	7,654	92.33	4,701.85	-32.69	4,702.24	2.04		
11,889	89.78	7,660	92.17	4,869.56	-39.28	4,870.00	1.94		
12,011	90.48	7,659	91.44	4,991.46	-43.13	4,991.94	0.83		

WEATHER

TIME:	BAR:	PITCH:	deg	VDL:	kips	TEMP:	ROLL:	deg	G & A:	deg	
WIND:	/	HEAVE:	ft	STACK:	deg	WAVE:	/	MAX @:	ft	BJ:	deg



DAILY ACTIVITY SUMMARY

Date: 5/20/2009

JAMES RANCH UNIT #113H

FROM	TO	HRS	Ph	Op	Activity Last 24 Hours - Operations In Sequence (6 AM - 6 AM)
16:15	19:15	3.00	D	DL	SLIDE/DRILL 11675'- 11800', GPM= 400, M= 120 RPM, WOB= 35K, ROT= 60 RPM, AVG PR= 42'/HR
19:15	20:00	0.75	D	SU	SURVEYS
20:00	22:00	2.00	D	DL	SLIDE/DRILL 11800'- 11958', GPM= 400, M= 120 RPM, WOB= 35K, ROT= 60 RPM, AVG. PR= 79'/HR
22:00	23:00	1.00	D	SU	SURVEYS
23:00	01:00	2.00	D	DL	SLIDE/DRILL 11958'- 12090', GPM= 400, M= 120 RPM, WOB= 35K, ROT= 60 RPM, AVG PR= 66'/HR
01:00	02:00	1.00	D	SU	SURVEYS
02:00	04:00	2.00	D	TR	SHORT TRIP
04:00	05:30	1.50	D	CA	CIRCULATE, SPOT HI-VIS PILL
05:30	06:00	0.50	D	TR	LAYDOWN DRILL STRING



DOMESTIC DAILY DRILLING REPORT

DATE: 5/21/2009

WELL: JAMES RANCH UNIT #113H

ACTIVITY: WORKING TITE CASING

RPT No: 17 DSS: 16 CREATE DATE: 5/21/2009

FIELD: UNASSIGNED

CLASS: DRIL

WELL TYPE: DEVO

STATE: NM EDDY

PLAN TVD/MD: / 12,000

DIVISION: MIDLAND

AREA: MIDLAND

CURR TVD/MD: 7,660 / 12,090

API#: 30-015-37046

AFE#: 104165

PROGRESS: 0

HRS: 0.00

PROP#: 043606

DAILY ROP: 70.88

WATER DEPTH:

SPUD DATE: 5/5/2009

CASING: 8.625 in. SHOE TVD/MD: 3,872 / 3,872

LEAKOFF?:

RIG CONTR: MCVAY

RIG: 4

PH NBR: 281-833-2749

RLS DATE:

DAILY COST: \$17,261

CUM. COST TO DATE: \$1,370,042

FOREMAN: LYNN CLAYTON

FROM	TO	HRS	Ph	Op	Activity Last 24 Hours - Operations In Sequence (6 AM - 6 AM)
06:00	14:30	8.50	D	TR	LAYDOWN DRILL STRING
14:30	04:30	14.00	D	RC	RUN JTS 5-1/2, 17#, N80, LTC. CASING. UNABLE TO GO PAST 11220'. TITE CASING. UNABLE TO PULL UP. WORK ON TITE PLACE 4 HRS. CALL FOR ORDERS.
04:30	06:00	1.50	D	OT	WORK TITE CASING. CALLING BLM.

24.00 = Total Hours Today

TRIP#	BIT#	MAKE	SIZE	TYPE	SL#	FROM	TO	LGTH	HRS	ROP	N1	N2	N3	WOB	RPM	I	O	B	G	R
5	5	ULTERRA	7.875	MS1188	5544	7,642	12,090	4,540	67.25	67.51	10	10	10	30.00	180.00					

BHA# : 4					MUD PROPERTIES					HYDRAULICS				
Qty	Description	I.D.	O.D.	Length	Time	06:00	Depth			Std Pipe	1850			
1	BIT		7.875	1.00	MW:		Solids:			PUMP#1		PUMP#2		PUMP#3
1	MUD MOTOR		6.250	28.70	VISC:		Oil:			# Cyl:	3		3	
1	FLOAT SUB	2.500	6.250	3.00	pH:		10 sec Gel:			SPM:	105			
1	NON-MAG FLEX JO	2.500	6.250	15.28	Chl:		10 min Gel:			Liner Id:	6.500		6.500	
1	UBHO SUB	2.500	6.250	3.40	WL:		CA:			S.L.:	9.00		9.00	
1	30' MONEL CLR	2.500	6.250	31.02	HTHP:		Pm:			Rod Dia:	3.00		3.00	
1	NON-MAG FLEX JO	2.500	6.250	30.82	FC:		Pf:			Eff %:	98		98	
1	NON-MAG FLEX JO	2.500	6.250	30.54	PV:		Ex Lime:			GPM:	399		0	0
Total BHA Length: 143.76					YP:		Elec Stab:			SLOW PUMP RATES				
					LCM:		MBT:			SPM:				
										PRSR:				
										AV(DP):	0.0	AV(DC):		0.0
										Jet Vel:	251.1	PSI Drop:		0.0
										Bit HP:	0.0	HP/in2:		0.0

SURVEYS								Mud Used	
MD	Angle	TVD	Dir.	V. Sect.	+N/-S	+E/-W	D.L.	Mud Additive	Used
11,092	87.23	7,630	92.31	4,073.53	-30.91	4,073.89	1.70		
11,185	87.05	7,635	90.07	4,166.37	-32.84	4,166.75	2.41		
11,279	87.05	7,640	88.67	4,260.25	-31.81	4,260.62	1.49		
11,375	88.02	7,644	88.73	4,356.15	-29.63	4,356.50	1.01		
11,501	88.81	7,647	89.80	4,482.09	-28.02	4,482.44	1.06		
11,596	88.81	7,649	91.20	4,577.06	-28.85	4,577.41	1.47		
11,721	86.53	7,654	92.33	4,701.85	-32.69	4,702.24	2.04		
11,889	89.78	7,660	92.17	4,869.56	-39.28	4,870.00	1.94		
12,011	90.48	7,659	91.44	4,991.46	-43.13	4,991.94	0.83		

WEATHER

TIME: BAR: PITCH: deg VDL: kips TEMP: ROLL: deg G & A: deg
WIND: / HEAVE: ft STACK: deg WAVE: / MAX @: ft BJ: deg



DOMESTIC DAILY DRILLING REPORT

DATE: 5/22/2009

WELL: JAMES RANCH UNIT #113H

ACTIVITY: RIG RELEASED

RPT No: 18 OSS: 17 CREATE DATE: 5/22/2009

FIELD: UNASSIGNED

CLASS: DRIL

WELL TYPE: DEVO

STATE: NM EDDY

PLAN TVD/MD: / 12,000

DIVISION: MIDLAND

AREA: MIDLAND

CURR TVD/MD: 7,660 / 12,090

API#: 30-015-37046 AFE#: 104165

PROGRESS: 0

HRS: 0.00 PROP#: 043606

DAILY ROP: 70.88 WATER DEPTH:

SPUD DATE: 5/5/2009

CASING: 8.625 in. SHOE TVD/MD: 3,872 / 3,872

LEAKOFF?:

RIG CONTR: MCVAY

RIG: 4

PH NBR: 281-833-2749

RLS DATE:

DAILY COST: \$381,196

CUM. COST TO DATE: \$1,751,238

FOREMAN: LYNN CLAYTON

FROM	TO	HRS	Ph	Op	Activity Last 24 Hours - Operations In Sequence (6 AM - 6 AM)
06:00	12:00	6.00	D	OT	CIRCULATE
12:00	15:00	3.00	D	CM	CEMENT 1ST STAGE- 450 SXS 50/50 POZ C. TAIL 1000 SXS 50/50 POZ H. DISPLACE W/170 BBLS FRESH WATER AND 80 BBLS MUD. BUMPED PLUG TO 1450 PSI. FLOATS HELD. DROP STAGE TOOL OPENING BOMB. PUMPED 150 BBLS MUD. CIRCULATED 73 SXS TO SURFACE.
15:00	20:00	5.00	D	CA	CIRCULATE
20:00	22:00	2.00	D	CM	CEMENT 2ND STAGE LEAD 715 SXS 50/50 POZ C. TAIL 100 SXS CLASS C. DISPLACE WITH BBLS 107 FRESH WATER. CLOSED STAGE TOOL WITH 2850 PSI.
22:00	06:00	8.00	D	OT	NIPPLE DOWN, SET SLIPS, JET PITS. RELEASE RIT 0600 HRS 5/22/09

24.00 = Total Hours Today

TRIP#	BIT#	MAKE	SIZE	TYPE	SL#	FROM	TO	LGTH	HRS	ROP	N1	N2	N3	WOB	RPM	I	O	B	G	R
5	5	ULTERRA	7.875	MS1188	5544	7,642	12,090	4,540	67.25	67.51	10	10	10	30.00	180.00					

BHA# : 4					MUD PROPERTIES				HYDRAULICS						
Qty	Description	I.D.	O.D.	Length	Time: 06:00	Depth:	MW:	Solids:	Std Pipe: 1850	PUMP#1	PUMP#2	PUMP#3	# Cyl:		
1	BIT		7.875	1.00									3		
1	MUD MOTOR		6.250	28.70									3		
1	FLOAT SUB	2.500	6.250	3.00				Oil:		105					
1	NON-MAG FLEX JC	2.500	6.250	15.28				10 sec Gel:		6.500	6.500				
1	UBHO SUB	2.500	6.250	3.40				10 min Gel:		9.00	9.00				
1	30' MONEL CLR	2.500	6.250	31.02				CA:		3.00	3.00				
1	NON-MAG FLEX JO	2.500	6.250	30.82				Pm:		98	98				
1	NON-MAG FLEX JO	2.500	6.250	30.54				Pf:		399	0			0	
					FC:				SLOW PUMP RATES						
					PV:				SPM:						
					YP:				PRSR:						
					LCM:				AV(DP):	0.0	AV(DC):		0.0		
									Jet Vel:	251.1	PSI Drop:		0.0		
									Bit HP:	0.0	HP/in2:		0.0		

PathFinder Energy Services, Inc.

Survey Report

EOG RESOURCES
JAMES RANCH UNIT #113H ST01
EDDY COUNTY, NM
Rig:
PathFinder Office Supervisor:
PathFinder Field Engineers:

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.20.48.0503 N LON: 103.49.32.7739 W
Reference: NAD27 new mexico east Transverse Mercator
Ref GRID Coord: X: 656747.7790 Y: 490209.5843
North Aligned To: TRUE NORTH
Total Magnetic Correction: 7.68° EAST TO TRUE
Vertical Section Plane: 90.30
Survey Vert. Reference: 18.00' Kelly Bushing To Ground
Altitude: 3316.30' Ground To MSL

Survey Calculations by RX5 V5.11i using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
TIE-IN @6705'MD TO SCIENTIFIC GYRO SURVEY.										
6705.00	7.06	95.13	6694.78	0.00	232.64	56.08 S	232.35 E	239.02@	103.57	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
6712.00	6.95	94.92	6701.73	7.00	233.49	56.15 S	233.20 E	239.87@	103.54	1.61
6837.00	6.16	95.91	6825.91	125.00	247.70	57.49 S	247.41 E	254.00@	103.08	0.64
6976.00	9.58	84.97	6963.59	139.00	266.65	57.25 S	266.35 E	272.44@	102.13	2.68
7007.00	12.13	80.95	6994.03	31.00	272.43	56.51 S	272.14 E	277.95@	101.73	8.58
7038.00	14.42	77.85	7024.20	31.00	279.42	55.18 S	279.13 E	284.53@	101.18	7.73
7069.00	16.18	77.40	7054.10	31.00	287.40	53.43 S	287.12 E	292.05@	100.54	5.69
7101.00	18.11	77.06	7084.68	32.00	296.58	51.34 S	296.32 E	300.73@	99.83	6.04
7132.00	20.31	77.62	7113.95	31.00	306.52	49.11 S	306.27 E	310.18@	99.11	7.12
7163.00	22.86	77.88	7142.77	31.00	317.66	46.69 S	317.42 E	320.83@	98.37	8.23
7194.00	25.85	78.65	7171.01	31.00	330.16	44.10 S	329.93 E	332.87@	97.61	9.70
7226.00	28.40	80.48	7199.49	32.00	344.49	41.47 S	344.28 E	346.77@	96.87	8.38
7257.00	31.22	82.42	7226.39	31.00	359.72	39.19 S	359.52 E	361.65@	96.22	9.61
7288.00	33.50	82.63	7252.57	31.00	376.16	37.03 S	375.97 E	377.79@	95.62	7.36
7320.00	35.35	85.22	7278.97	32.00	394.13	35.12 S	393.95 E	395.52@	95.09	7.37
7351.00	37.72	88.61	7303.87	31.00	412.55	34.15 S	412.37 E	413.79@	94.73	10.04
7382.00	40.63	90.35	7327.90	31.00	432.12	33.98 S	431.95 E	433.29@	94.50	10.03
7414.00	43.70	90.75	7351.62	32.00	453.60	34.19 S	453.43 E	454.72@	94.31	9.63
7444.00	46.60	91.47	7372.78	30.00	474.87	34.60 S	474.69 E	475.95@	94.17	9.81
7475.00	49.15	91.73	7393.57	31.00	497.85	35.24 S	497.67 E	498.92@	94.05	8.25
7507.00	52.23	92.24	7413.84	32.00	522.60	36.10 S	522.41 E	523.66@	93.95	9.70
7538.00	54.96	92.69	7432.23	31.00	547.53	37.18 S	547.34 E	548.60@	93.89	8.88
7569.00	56.89	91.09	7449.60	31.00	573.19	38.02 S	573.00 E	574.26@	93.80	7.55
7601.00	58.74	90.33	7466.65	32.00	600.27	38.36 S	600.08 E	601.30@	93.66	6.12

PathFinder Energy Services, Inc.

Survey Report

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
7632.00	60.06	88.70	7482.43	31.00	626.95	38.13 S	626.76 E	627.92@	93.48	6.21
7663.00	61.82	87.28	7497.49	31.00	654.02	37.17 S	653.84 E	654.89@	93.25	6.95
7695.00	64.90	87.01	7511.83	32.00	682.58	35.75 S	682.40 E	683.34@	93.00	9.65
7726.00	67.53	86.73	7524.33	31.00	710.89	34.20 S	710.72 E	711.55@	92.75	8.52
7757.00	70.87	86.92	7535.34	31.00	739.81	32.59 S	739.65 E	740.37@	92.52	10.79
7788.00	74.57	87.56	7544.55	31.00	769.37	31.17 S	769.22 E	769.85@	92.32	12.10
7819.00	78.44	88.05	7551.78	31.00	799.48	30.02 S	799.33 E	799.90@	92.15	12.58
7913.00	87.14	90.46	7563.57	94.00	892.62	28.83 S	892.48 E	892.95@	91.85	9.60
8006.00	89.16	89.67	7566.57	93.00	985.57	28.93 S	985.43 E	985.85@	91.68	2.33
8099.00	89.16	89.56	7567.93	93.00	1078.55	28.31 S	1078.42 E	1078.79@	91.50	0.12
8222.00	87.67	88.41	7571.34	123.00	1201.47	26.13 S	1201.35 E	1201.63@	91.25	1.53
8345.00	88.37	88.03	7575.59	123.00	1324.31	22.31 S	1324.21 E	1324.40@	90.97	0.65
8471.00	90.31	88.87	7577.04	126.00	1450.23	18.90 S	1450.15 E	1450.27@	90.75	1.68
8595.00	91.01	87.86	7575.61	124.00	1574.15	15.36 S	1574.09 E	1574.16@	90.56	0.99
8719.00	91.89	89.37	7572.47	124.00	1698.05	12.37 S	1698.01 E	1698.05@	90.42	1.41
8843.00	91.10	90.85	7569.23	124.00	1822.00	12.61 S	1821.96 E	1822.01@	90.40	1.35
8936.00	90.04	91.08	7568.31	93.00	1914.99	14.17 S	1914.94 E	1915.00@	90.42	1.17
9029.00	86.00	89.86	7571.52	93.00	2007.91	14.94 S	2007.86 E	2007.92@	90.43	4.54
9122.00	86.17	89.93	7577.87	93.00	2100.69	14.77 S	2100.65 E	2100.70@	90.40	0.20
9215.00	87.85	89.53	7582.72	93.00	2193.56	14.33 S	2193.51 E	2193.56@	90.37	1.86
9308.00	88.37	89.88	7585.79	93.00	2286.50	13.85 S	2286.46 E	2286.50@	90.35	0.67
9402.00	87.67	88.77	7589.04	94.00	2380.43	12.74 S	2380.40 E	2380.43@	90.31	1.40
9496.00	88.37	89.79	7592.29	94.00	2474.36	11.56 S	2474.33 E	2474.36@	90.27	1.32
9589.00	90.40	91.09	7593.28	93.00	2567.35	12.28 S	2567.32 E	2567.35@	90.27	2.59
9682.00	90.04	90.63	7592.93	93.00	2660.34	13.67 S	2660.31 E	2660.34@	90.29	0.63
9776.00	90.40	90.38	7592.57	94.00	2754.34	14.50 S	2754.30 E	2754.34@	90.30	0.47

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
9870.00	90.13	89.88	7592.13	94.00	2848.34	14.71 S	2848.30 E	2848.34@	90.30	0.60
9964.00	90.13	89.59	7591.92	94.00	2942.33	14.28 S	2942.30 E	2942.33@	90.28	0.31
10058.00	90.40	89.92	7591.48	94.00	3036.33	13.88 S	3036.30 E	3036.33@	90.26	0.45
10151.00	88.90	90.75	7592.05	93.00	3129.32	14.42 S	3129.29 E	3129.32@	90.26	1.84
10245.00	88.64	91.00	7594.07	94.00	3223.30	15.86 S	3223.28 E	3223.30@	90.28	0.38
10339.00	87.05	90.43	7597.60	94.00	3317.22	17.03 S	3317.18 E	3317.22@	90.29	1.80
10434.00	87.49	90.22	7602.13	95.00	3412.12	17.57 S	3412.07 E	3412.12@	90.29	0.51
10526.00	88.72	90.26	7605.17	92.00	3504.06	17.95 S	3504.02 E	3504.06@	90.29	1.34
10620.00	89.52	90.03	7606.61	94.00	3598.05	18.19 S	3598.01 E	3598.05@	90.29	0.89
10714.00	88.72	90.83	7608.06	94.00	3692.04	18.90 S	3691.99 E	3692.04@	90.29	1.20
10809.00	87.32	92.37	7611.34	95.00	3786.95	21.55 S	3786.89 E	3786.95@	90.33	2.19
10901.00	87.14	92.44	7615.79	92.00	3878.78	25.40 S	3878.70 E	3878.79@	90.38	0.21
10996.00	85.74	91.64	7621.69	95.00	3973.55	28.78 S	3973.48 E	3973.56@	90.41	1.70
11092.00	87.23	92.31	7627.57	96.00	4069.33	32.08 S	4069.21 E	4069.34@	90.45	1.70
11185.00	87.05	90.07	7632.21	93.00	4162.19	34.01 S	4162.07 E	4162.21@	90.47	2.41
11279.00	87.05	88.67	7637.05	94.00	4256.05	32.98 S	4255.94 E	4256.07@	90.44	1.49
11375.00	88.02	88.73	7641.18	96.00	4351.93	30.80 S	4351.83 E	4351.93@	90.41	1.01
11501.00	88.81	89.80	7644.66	126.00	4477.86	29.19 S	4477.76 E	4477.86@	90.37	1.05
11596.00	88.81	91.20	7646.64	95.00	4572.83	30.01 S	4572.74 E	4572.84@	90.38	1.47
11721.00	86.53	92.33	7651.72	125.00	4697.68	33.86 S	4697.57 E	4697.69@	90.41	2.03
11880.00	89.78	92.17	7656.84	159.00	4856.48	40.10 S	4856.34 E	4856.50@	90.47	2.05
12011.00	90.48	91.44	7656.54	131.00	4987.44	44.22 S	4987.27 E	4987.47@	90.51	0.77
STRAIGHT-LINE PROJECTION TO BIT @ 12090' MD.										
12090.00	90.48	91.44	7655.88	79.00	5066.42	46.21 S	5066.24 E	5066.45@	90.52	0.00