

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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
June 16, 2008

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address THREE RIVERS OPERATING COMPANY, LLC. 1122 SOUTH CAPITAL OF TEXAS HIGHWAY SUITE 325 AUSTIN, TEXAS 78745		CGRID Number 272295
Property Name LIVINGSTON RIDGE "36" STATE		API Number 30 - 015-39683
Property Code 309222	Well No. 4H	
Proposed Pool 1 LIVINGSTON RIDGE-BONE SPRING (39350)		Proposed Pool 2

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	36	22S	31E		330'	SOUTH	660'	EAST	EDDY

Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	36	22S	31E		330'	NORTH	660'	EAST	EDDY

Additional Well Information

Work Type Code N	Well Type Code O	Cable/Rotary ROTARY	Lease Type Code S	Ground Level Elevation 3479'
Multiple NO	Proposed Depth TVD-10,910' MD-15,259	Formation BONE SPRING	Contractor UNKNOWN	Spud Date WHEN APPROVED

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
26"	20"	NA	40'	Redi-mix	SURFACE
17 1/2"	13 3/8"	54.5#	750'	775 Sx.	SURFACE
12 1/4"	9 5/8"	40#	4500'	1620 Sx.	SURFACE
8 3/4"	5 1/2"	17#	15,259'	1900 Sx.	Est 4000' FS

Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

SEE ATTACHED SHEET FOR DETAIL

Permit Expires 2 Years From Approval
Date Unless Drilling Underway

RECEIVED

NOV 22 2011

NMOCD ARTESIA

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: Joe T. Janica		OIL CONSERVATION DIVISION	
Printed name: Joe T. Janica		Approved by: T. P. Sharnard	
Title: Permit Eng.		Title: Geologist	
E-mail Address: joejanica@valornet.com		Approval Date: NOV 23 2011	
Date: 11/18/11		Expiration Date: NOV 23, 2013	
Phone: 575-391-8503		Conditions of Approval Attached ☐	

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State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 15, 2009

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

1220 South St Francis Dr
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-39683	Pool Code 39350	Pool Name LIVINGSTON RIDGE-BONE SPRING
Property Code 309222	Property Name LIVINGSTON RIDGE 36 STATE	Well Number 4H <i>ND</i>
OGRID No 272295	Operator Name THREE RIVERS OPERATING COMPANY, LLC	Elevation 3479'

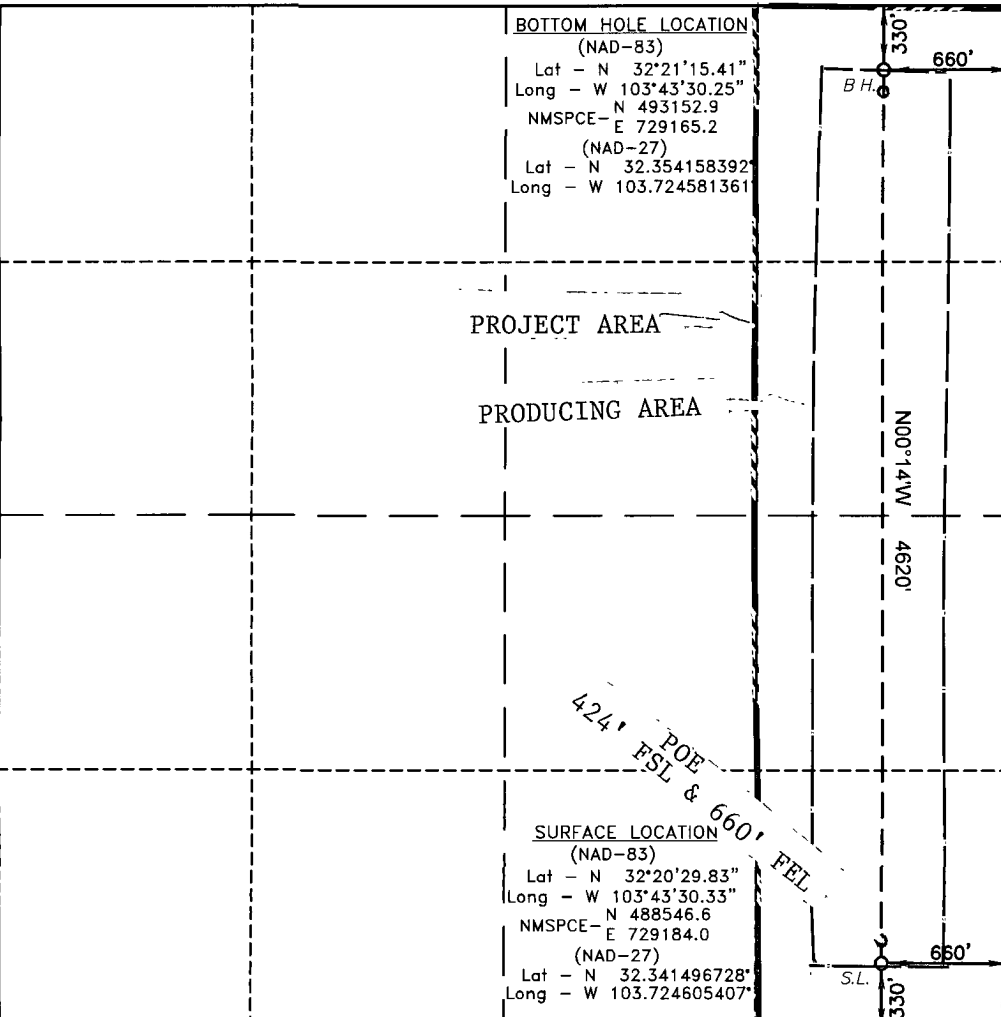
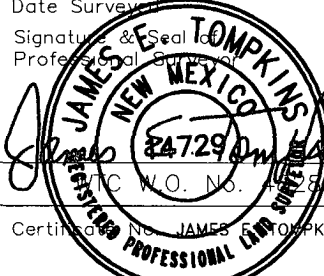
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	36	22 S	31 E		330	SOUTH	660	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	36	22 S	31 E		330	NORTH	660	EAST	EDDY
Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No						

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

	BOTTOM HOLE LOCATION (NAD-83) Lat - N 32°21'15.41" Long - W 103°43'30.25" NMSPC- N 493152.9 E 729165.2 (NAD-27) Lat - N 32.354158392° Long - W 103.724581361°
	PROJECT AREA PRODUCING AREA
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. <i>Joe T. Janica</i> Signature Date Joe T. Janica 11/18/11 Printed Name	
SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. OCTOBER 26, 2011 Date Surveyed Signature & Seal of Professional Surveyor  Certified No. JAMES E. TOMPKINS 14729	

THREE RIVERS OPERATING COMPANY, LLC.
LIVINGSTON RIDGE "36" STATE # 4H
UNIT "P" SECTION 36
T22S-R31E EDDY CO. NM

1. Drill 26" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 17½" hole to 750'. Run and set 750' of 13 3/8" 54.5# J-55 ST&C casing. Cement with 775 Sx. of HalCem Class "C" cement + 2% CaCl, 100% excess circulate cement to surface.
3. Drill 12¼" hole to 4500'. Run and set 4500' of 9 5/8" 40# N-80 LT&C casing. Cement with 1385 Sx. of EconoCem-HLC + 5% Salt, + 5# Gilsonite/Sx., tail in with 235 Sx. of HalCem Class "C" cement, 100% excess, circulate cement to surface.
4. Drill 8 3/4" hole to 11,800'. run open hole logs. Plug back to 9500' (KOP) with 450 Sx. of cement.
5. Drill 8 3/4" lateral hole to 15,259' MD. Run and set 15,259' of 5½" 17# N-80 LT&C casing. Cement with 1000 Sx. of EconoCem Class "H" cement + 0.25% of HR-601, tail in with 900 Sx. of SoluCem Class "H" cement + 0.25%/Sx. of D-AIR 3000, + 0.6% HR-601. Top of cement 4000' verified by CBL.

Three Rivers Operating Company, LLC

Wellbore Information

Well Name: Livingston Ridge 36 State 4H

Projected Total Depth: Pilot hole = 11800' Lateral = 15500'

Hole Size/Casing program:

<u>Hole Size - in</u>	<u>Interval - ft</u>	<u>Casing size - in</u>	<u>Weight - #/ft</u>	<u>Grade</u>	<u>Coupling</u>
17 1/2	0 - 750	13 3/8	54.5	J-55	STC
12 1/4	0 - 4500	9 5/8	40	N-80	LTC
8 3/4	0 - 11800				

Plug Back to 9500' - Kick off - Drill Lateral

8 3/4	9500-15500	5 1/2	17	N-80	LTC
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Minimum design factors are : Collapse = 1.125, Burst = 1.0, Tension = 1.6

All tubulars will be new, mill inspected/tested.

Cementing Program:

Surface 775 sxs HalCem - C w/ 2 % CaCl (14.9 ppg, 1.35 f³/sx)

TOC - Surface Excess - 100%

Intermediate Lead 1385 sxs EconoCem - HLC w/ 5 % salt + 5#/sx Gilsonite
(12.9 ppg, 1.85 f³/sx)

Tail 235 sxs HalCem - C (14.8 ppg, 1.33 f³/sx)

TOC - Surface Excess - 100%

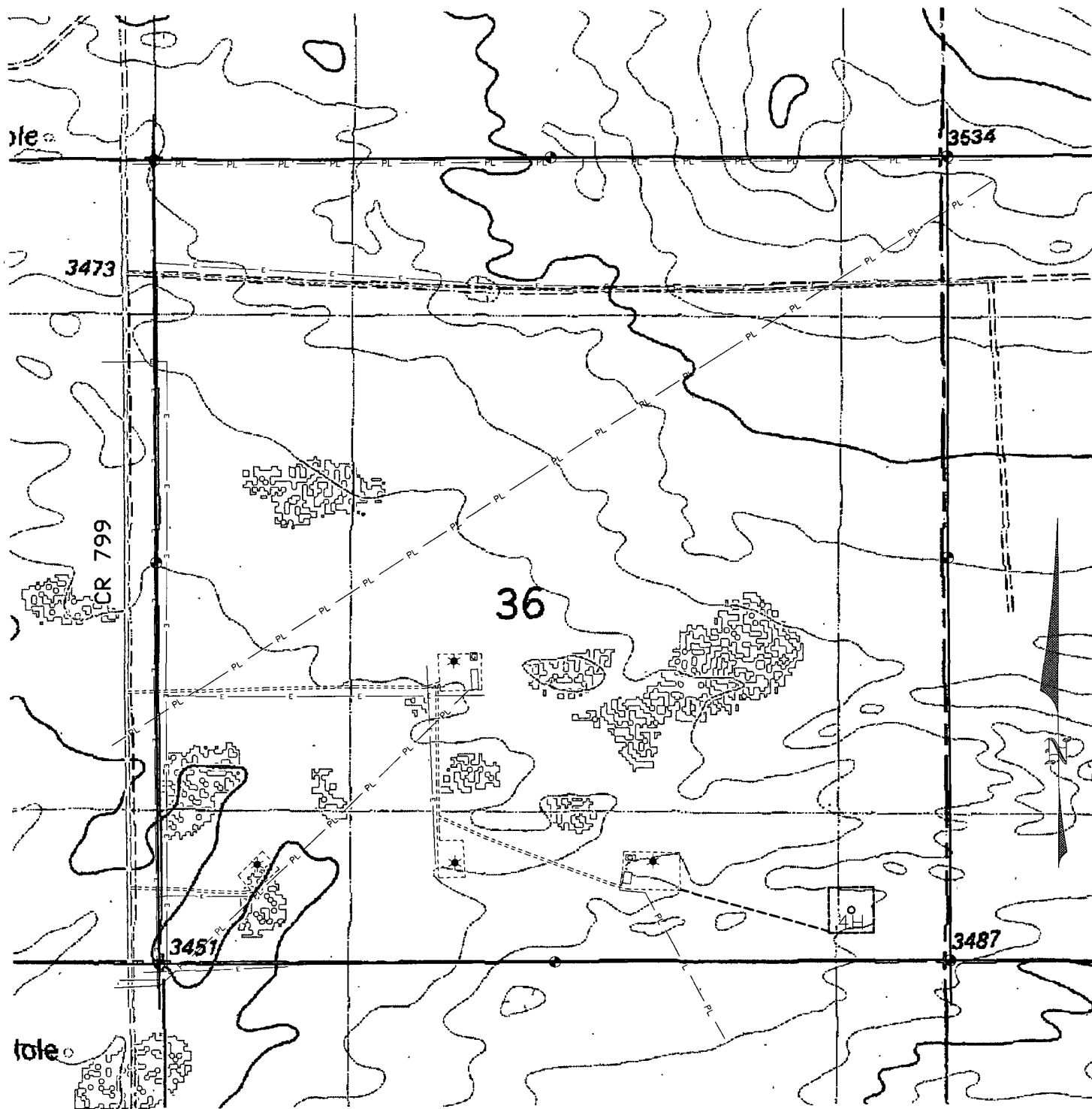
Plug Back/Kick-off Plug 450 sxs (1- 400' plug + 1- 600' plug) PlugCem - WSH
(17.2 ppg, .99 f³/ sx)

Production (Single Stage - no DV Tool)

Lead 1000 sxs EconoCem - H w/ 0.25 % HR-601
(11.9 ppg, 2.44 f³/sx)

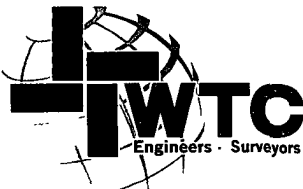
Tail 900 sxs SoluCem - H w/ 0.25 #/sx D-AIR 3000 + 0.6 % HR-601
(15.0 ppg, 2.61 f³/sx)

TOC - 4000' (Will be verified with CBL)



FROM THE JUNCTION OF STATE HIGHWAYS 128 AND CO. RD. 799, (RED RD) GO NORTH ALONG CO. RD. 799 FOR 6.4 MILES TO A LEASE ROAD RIGHT/EAST; THEN FOLLOWING SAID LEASE ROAD, GO EAST, SOUTH AND SOUTHEAST 0.9 MILE, TO THE SOUTHEAST CORNER OF A WELL PAD AT A POINT $\pm$ 1000 FEET WEST NORTHWEST OF LOCATION.

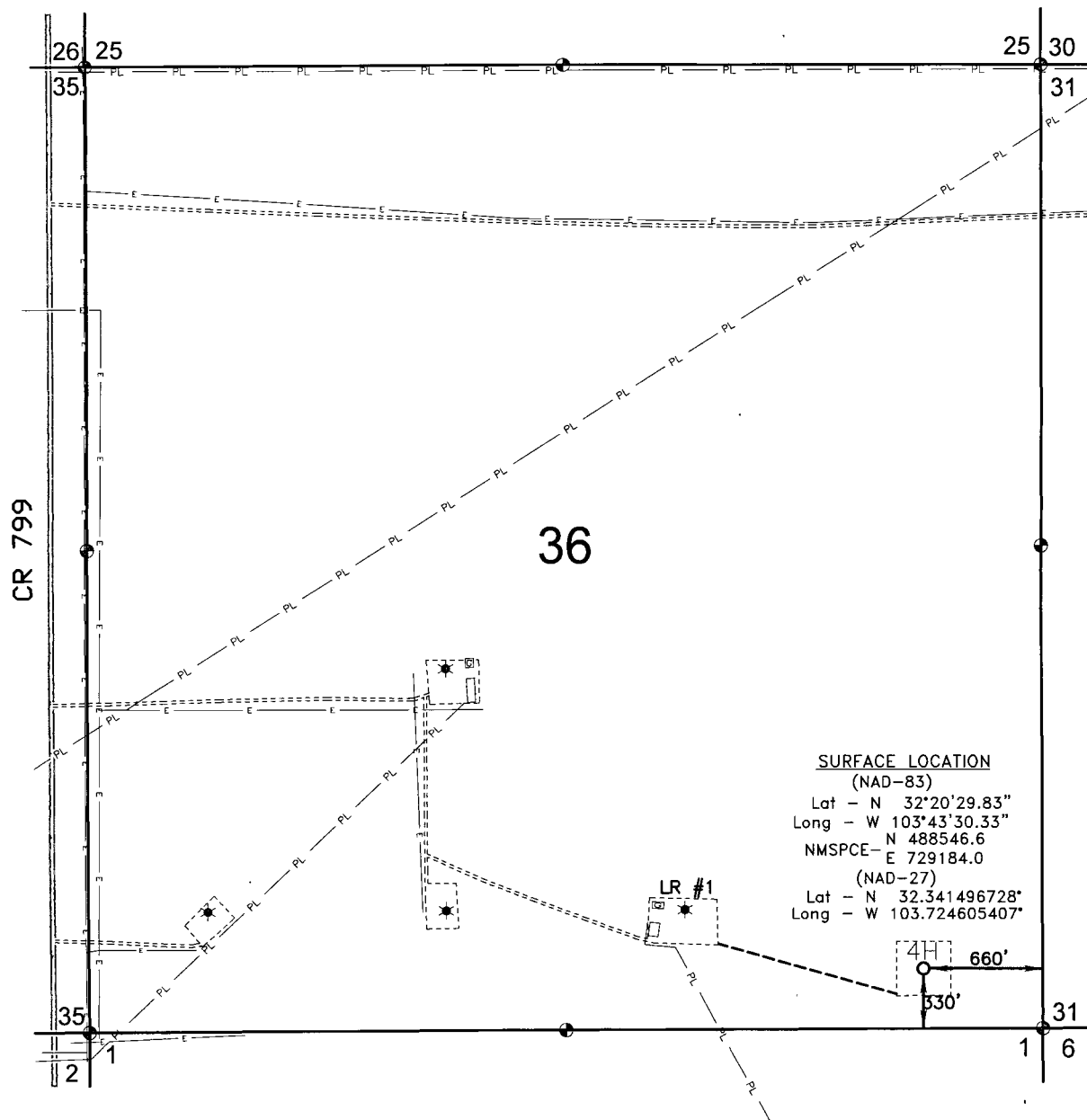
1000 0 1000 2000 FEET



WEST TEXAS CONSULTANTS, INC.
ENGINEERS PLANNERS SURVEYORS
405 S W 1st Street
Andrews, TX 79714
(432) 523-2181

THREE RIVERS OPERATING CO. LLC
LIVINGSTON RIDGE 36 STATE #4H
330' FSL & 660' FEL
SEC. 36, T. 22 S., R. 31 E., N.M.P.M.,
EDDY COUNTY, NEW MEXICO.

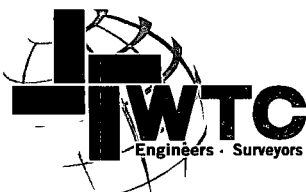
JOB NO 48287 SURVEY DATE: 10-26-2011 DRAFT GWS



SURFACE LOCATION
(NAD-83)
Lat - N 32°20'29.83"
Long - W 103°43'30.33"
NMSPCE - N 488546.6
E 729184.0
(NAD-27)
Lat - N 32.341496728°
Long - W 103.724605407°

FROM THE JUNCTION OF STATE HIGHWAYS 128 AND CO RD 799, (RED RD) GO NORTH ALONG CO. RD. 799 FOR 6.4 MILES TO A LEASE ROAD RIGHT/EAST, THEN FOLLOWING SAID LEASE ROAD, GO EAST, SOUTH AND SOUTHEAST 0.9 MILE, TO THE SOUTHEAST CORNER OF A WELL PAD AT A POINT ± 1000 FEET WEST NORTHWEST OF LOCATION.

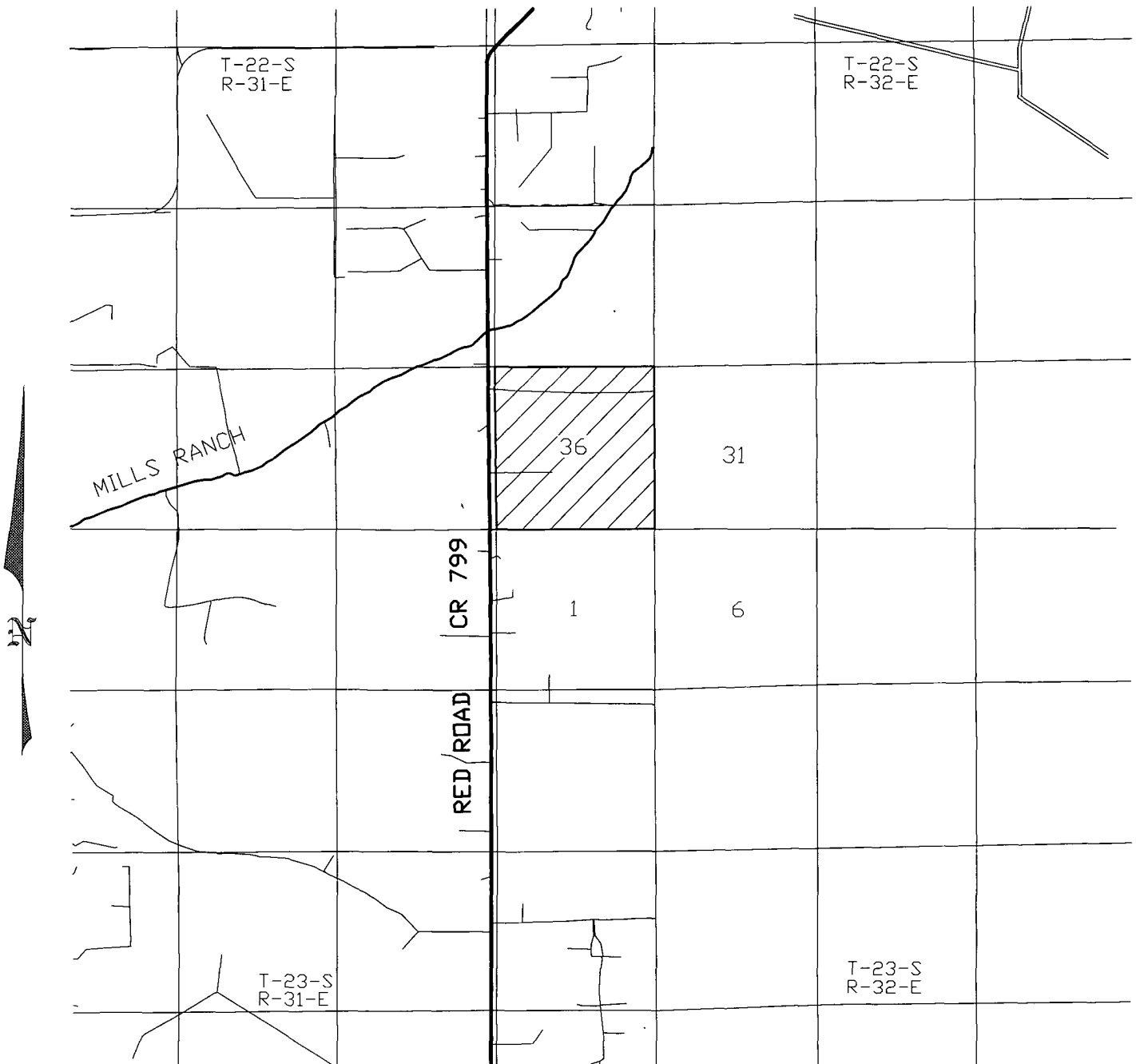
1000 0 1000 2000 FEET



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330' FSL & 660' FEL
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JOB NO. 48287 SURVEY DATE: 10-26-2011 DRAFT GWS

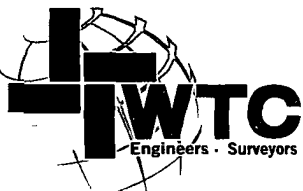


FROM THE JUNCTION OF STATE HIGHWAYS 128 AND
CO. RD. 799, (RED RD.) GO NORTH ALONG CO. RD.
799 FOR 6.4 MILES TO A LEASE ROAD RIGHT/EAST,
THEN FOLLOWING SAID LEASE ROAD, GO EAST,
SOUTH AND SOUTHEAST 0.9 MILE, TO THE
SOUTHEAST CORNER OF A WELL PAD AT A POINT $\pm$
1000 FEET WEST NORTHWEST OF LOCATION.

1 MILE 0 1 MILE 2 MILES

THREE RIVERS OPERATING CO. LLC
LIVINGSTON RIDGE 36 STATE #4H
330' FSL & 660' FEL
SEC. 36, T. 22 S., R. 31 E., N.M.P.M.,
EDDY COUNTY, NEW MEXICO.

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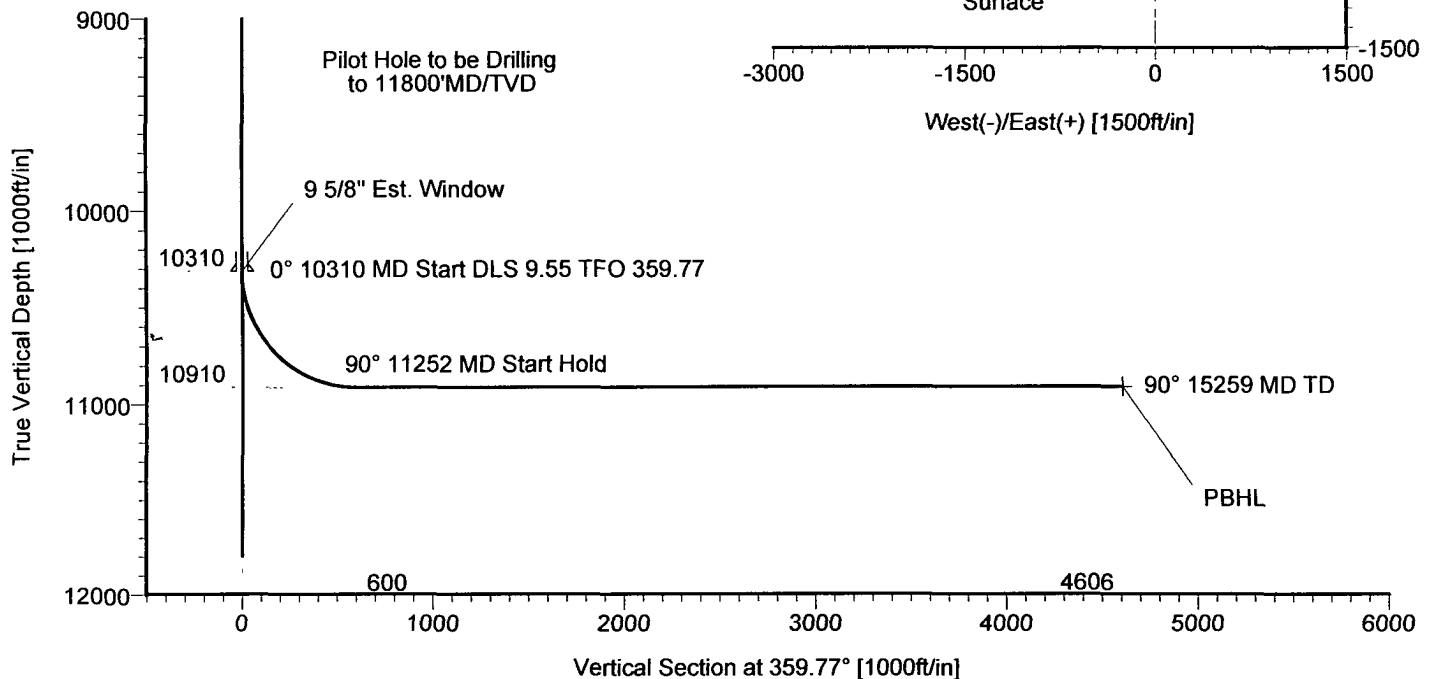
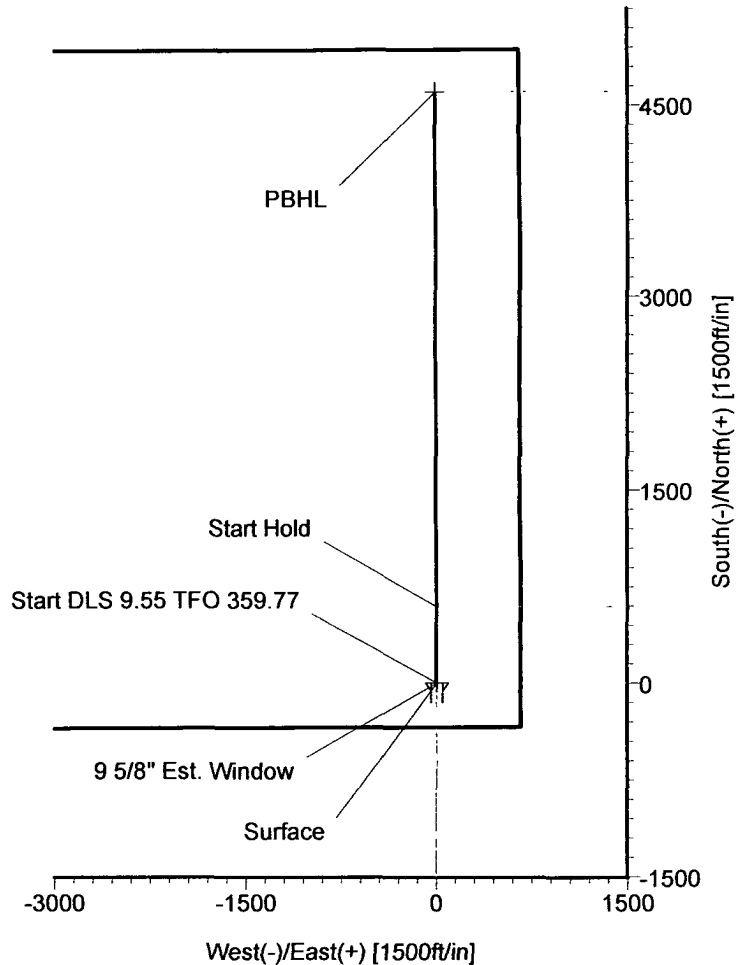
THREE RIVERS OPERATING COMPANY LLC

Field: Eddy County, NM
 Site: Livingston Ridge 36 State 4H
 Well: 4H
 Wellpath: Lateral
 Plan: Plan #2



Azimuths to Grid North
 True North: -0.33°
 Magnetic North: 7.29°

Magnetic Field
 Strength: 48656nT
 Dip Angle: 60.26°
 Date: 11/9/2011
 Model: IGRF2010



TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Surface	0.00	0.00	0.00	488486.60	688001.17	32°20'29.388N	103°43'28.580W	Point
PBHL	10910.00	4606.18	-18.67	493092.78	687982.51	32°21'14.970N	103°43'28.492W	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	10310.00	0.00	0.00	10310.00	0.00	0.00	0.00	0.00	0.00	
2	11252.48	90.00	359.77	10910.00	599.99	-2.43	9.55	359.77	600.00	
3	15258.69	90.00	359.77	10910.00	4606.18	-18.67	0.00	0.00	4606.21	PBHL

ARCHER DIRECTIONAL DRILLING SERVICES
 911 Regional Park Drive Houston, Texas 77060
 Phone: 713-934-9600 Fax: 713-934-9067

Archer

Planning Report

Company: THREE RIVERS OPERATING COMPANY
Field: Eddy County, NM
Site: Livingston Ridge 36 State 4H
Well: 4H
Wellpath: Lateral

Date: 11/9/2011 Time: 15:52:32 Page: 1
Co-ordinate(NE) Reference: Well: 4H, Grid North
Vertical (TVD) Reference: 3582'GL+26'KB 3608.0
Section (VS) Reference: Well: (0.00N,0.00E,359.77Azi)
Plan: Plan #2

Field: Eddy County, NM

Map System: US State Plane Coordinate System 1927
Geo Datum: NAD27 (Clarke 1866)
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Well Centre
Geomagnetic Model: IGRF2010

Site: Livingston Ridge 36 State 4H
New SL given 11-9-11

Site Position: Northing: 488486.60 ft Latitude: 32 20 29.388 N
From: Map Easting: 688001.17 ft Longitude: 103 43 28.580 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 0.00 ft Grid Convergence: 0.33 deg

Well: 4H

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 488486.60 ft Latitude: 32 20 29.388 N
+E/-W 0.00 ft Easting: 688001.17 ft Longitude: 103 43 28.580 W
Position Uncertainty: 0.00 ft

Wellpath: Lateral

Current Datum: 3582'GL+26'KB Height: 3608.00 ft
Magnetic Data: 11/9/2011
Field Strength: 48656 nT
Vertical Section: Depth From (TVD) +N/-S
ft ft
0.00 0.00 0.00 359.77

Drilled From: Pilot Hole
Tie-on Depth: 11800.00 ft
Above System Datum: Mean Sea Level
Declination: 7.62 deg
Mag Dip Angle: 60.26 deg
+E/-W Direction
ft deg

Plan: Plan #2
New SL & PBHL
Principal: No

Date Composed: 11/9/2011
Version: 1
Tied-to: From: Definitive Path

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
10310.00	0.00	0.00	10310.00	0.00	0.00	0.00	0.00	0.00	0.00	
11252.48	90.00	359.77	10910.00	599.99	-2.43	9.55	9.55	-0.02	359.77	
15258.69	90.00	359.77	10910.00	4606.18	-18.67	0.00	0.00	0.00	0.00	PBHL

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
10310.00	0.00	0.00	10310.00	0.00	0.00	0.00	0.00	0.00	0.00	9 5/8" Est. Window
10350.00	3.82	359.77	10349.97	1.33	-0.01	1.33	9.55	9.55	0.00	
10400.00	8.59	359.77	10399.66	6.74	-0.03	6.74	9.55	9.55	0.00	
10450.00	13.37	359.77	10448.73	16.26	-0.07	16.26	9.55	9.55	0.00	
10500.00	18.14	359.77	10496.84	29.83	-0.12	29.83	9.55	9.55	0.00	
10550.00	22.92	359.77	10543.65	47.36	-0.19	47.36	9.55	9.55	0.00	
10600.00	27.69	359.77	10588.84	68.73	-0.28	68.73	9.55	9.55	0.00	
10650.00	32.47	359.77	10632.09	93.78	-0.38	93.78	9.55	9.55	0.00	
10700.00	37.24	359.77	10673.11	122.35	-0.50	122.35	9.55	9.55	0.00	
10750.00	42.02	359.77	10711.61	154.23	-0.63	154.23	9.55	9.55	0.00	
10800.00	46.79	359.77	10747.32	189.21	-0.77	189.21	9.55	9.55	0.00	
10850.00	51.57	359.77	10780.00	227.03	-0.92	227.03	9.55	9.55	0.00	
10900.00	56.34	359.77	10809.41	267.45	-1.08	267.45	9.55	9.55	0.00	
10950.00	61.12	359.77	10835.36	310.17	-1.26	310.17	9.55	9.55	0.00	
11000.00	65.89	359.77	10857.66	354.90	-1.44	354.91	9.55	9.55	0.00	
11050.00	70.66	359.77	10876.16	401.34	-1.63	401.34	9.55	9.55	0.00	
11100.00	75.44	359.77	10890.73	449.15	-1.82	449.16	9.55	9.55	0.00	
11150.00	80.21	359.77	10901.27	498.02	-2.02	498.02	9.55	9.55	0.00	

Planning Report

Company: THREE RIVERS OPERATING COMPANY
Field: Eddy County, NM
Site: Livingston Ridge 36 State 4H
Well: 4H
Wellpath: Lateral

Date: 11/9/2011 **Time:** 15:52:32
Co-ordinate(NE) Reference: Well: 4H, Grid North
Vertical (TVD) Reference: 3582'GL+26'KB 3608.0
Section (VS) Reference: Well (0.00N,0.00E,359.77Azi)
Plan: Plan #2

Page: 2

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
11200.00	84.99	359.77	10907.71	547.58	-2.22	547.59	9.55	9.55	0.00	
11252.48	90.00	359.77	10910.00	599.99	-2.43	600.00	9.55	9.55	0.00	
11300.00	90.00	359.77	10910.00	647.52	-2.62	647.52	0.00	0.00	0.00	
11400.00	90.00	359.77	10910.00	747.52	-3.03	747.52	0.00	0.00	0.00	
11500.00	90.00	359.77	10910.00	847.52	-3.43	847.52	0.00	0.00	0.00	
11600.00	90.00	359.77	10910.00	947.51	-3.84	947.52	0.00	0.00	0.00	
11700.00	90.00	359.77	10910.00	1047.51	-4.24	1047.52	0.00	0.00	0.00	
11800.00	90.00	359.77	10910.00	1147.51	-4.65	1147.52	0.00	0.00	0.00	
11900.00	90.00	359.77	10910.00	1247.51	-5.06	1247.52	0.00	0.00	0.00	
12000.00	90.00	359.77	10910.00	1347.51	-5.46	1347.52	0.00	0.00	0.00	
12100.00	90.00	359.77	10910.00	1447.51	-5.87	1447.52	0.00	0.00	0.00	
12200.00	90.00	359.77	10910.00	1547.51	-6.27	1547.52	0.00	0.00	0.00	
12300.00	90.00	359.77	10910.00	1647.51	-6.68	1647.52	0.00	0.00	0.00	
12400.00	90.00	359.77	10910.00	1747.51	-7.08	1747.52	0.00	0.00	0.00	
12500.00	90.00	359.77	10910.00	1847.51	-7.49	1847.52	0.00	0.00	0.00	
12600.00	90.00	359.77	10910.00	1947.51	-7.89	1947.52	0.00	0.00	0.00	
12700.00	90.00	359.77	10910.00	2047.51	-8.30	2047.52	0.00	0.00	0.00	
12800.00	90.00	359.77	10910.00	2147.50	-8.70	2147.52	0.00	0.00	0.00	
12900.00	90.00	359.77	10910.00	2247.50	-9.11	2247.52	0.00	0.00	0.00	
13000.00	90.00	359.77	10910.00	2347.50	-9.51	2347.52	0.00	0.00	0.00	
13100.00	90.00	359.77	10910.00	2447.50	-9.92	2447.52	0.00	0.00	0.00	
13200.00	90.00	359.77	10910.00	2547.50	-10.32	2547.52	0.00	0.00	0.00	
13300.00	90.00	359.77	10910.00	2647.50	-10.73	2647.52	0.00	0.00	0.00	
13400.00	90.00	359.77	10910.00	2747.50	-11.13	2747.52	0.00	0.00	0.00	
13500.00	90.00	359.77	10910.00	2847.50	-11.54	2847.52	0.00	0.00	0.00	
13600.00	90.00	359.77	10910.00	2947.50	-11.94	2947.52	0.00	0.00	0.00	
13700.00	90.00	359.77	10910.00	3047.50	-12.35	3047.52	0.00	0.00	0.00	
13800.00	90.00	359.77	10910.00	3147.50	-12.75	3147.52	0.00	0.00	0.00	
13900.00	90.00	359.77	10910.00	3247.50	-13.16	3247.52	0.00	0.00	0.00	
14000.00	90.00	359.77	10910.00	3347.49	-13.57	3347.52	0.00	0.00	0.00	
14100.00	90.00	359.77	10910.00	3447.49	-13.97	3447.52	0.00	0.00	0.00	
14200.00	90.00	359.77	10910.00	3547.49	-14.38	3547.52	0.00	0.00	0.00	
14300.00	90.00	359.77	10910.00	3647.49	-14.78	3647.52	0.00	0.00	0.00	
14400.00	90.00	359.77	10910.00	3747.49	-15.19	3747.52	0.00	0.00	0.00	
14500.00	90.00	359.77	10910.00	3847.49	-15.59	3847.52	0.00	0.00	0.00	
14600.00	90.00	359.77	10910.00	3947.49	-16.00	3947.52	0.00	0.00	0.00	
14700.00	90.00	359.77	10910.00	4047.49	-16.40	4047.52	0.00	0.00	0.00	
14800.00	90.00	359.77	10910.00	4147.49	-16.81	4147.52	0.00	0.00	0.00	
14900.00	90.00	359.77	10910.00	4247.49	-17.21	4247.52	0.00	0.00	0.00	
15000.00	90.00	359.77	10910.00	4347.49	-17.62	4347.52	0.00	0.00	0.00	
15100.00	90.00	359.77	10910.00	4447.49	-18.02	4447.52	0.00	0.00	0.00	
15200.00	90.00	359.77	10910.00	4547.48	-18.43	4547.52	0.00	0.00	0.00	
15258.69	90.00	359.77	10910.00	4606.18	-18.67	4606.21	0.00	0.00	0.00	PBHL

Targets

Name	Description		TVD ft.	+N/-S ft.	+E/-W ft.	Map Northing ft.	Map Easting ft.	<--- Latitude --->			<--- Longitude --->		
	Dip	Dir.						Deg	Min	Sec	Deg	Min	Sec
Surface			0.00	0.00	0.00	488486.60	688001.17	32	20	29.388 N	103	43	28.580 W
PBHL			10910.00	4606.18	-18.67	493092.78	687982.51	32	21	14.970 N	103	43	28.492 W

Planning Report

Company: THREE RIVERS OPERATING COMPANY
Field: Eddy County, NM
Site: Livingston Ridge 36 State 4H
Well: 4H
Wellpath: Lateral

Date: 11/9/2011 Time: 15:52:32 Page: 3
Co-ordinate(NE) Reference: Well: 4H, Grid North
Vertical (TVD) Reference: 3582'GL+26'KB 3608.0
Section (VS) Reference: Well (0.00N,0.00E,359.77Azi)
Plan: Plan #2

Casing Points

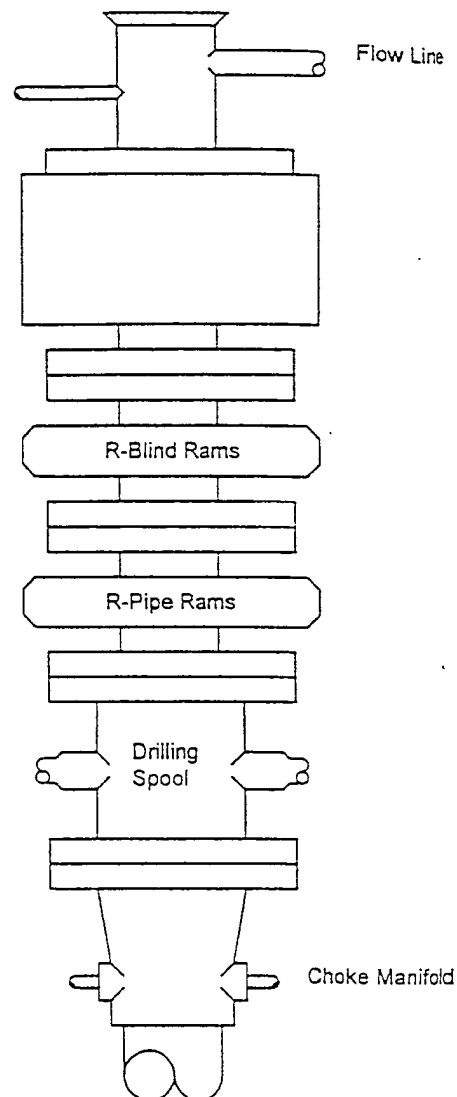
MD ft	TVD ft	Diameter in	Hole Size in	Name
10310.00	10310.00	9.62	12.25	9 5/8" Est. Window

BLOWOUT PREVENTER SYSTEM

5000 PSI

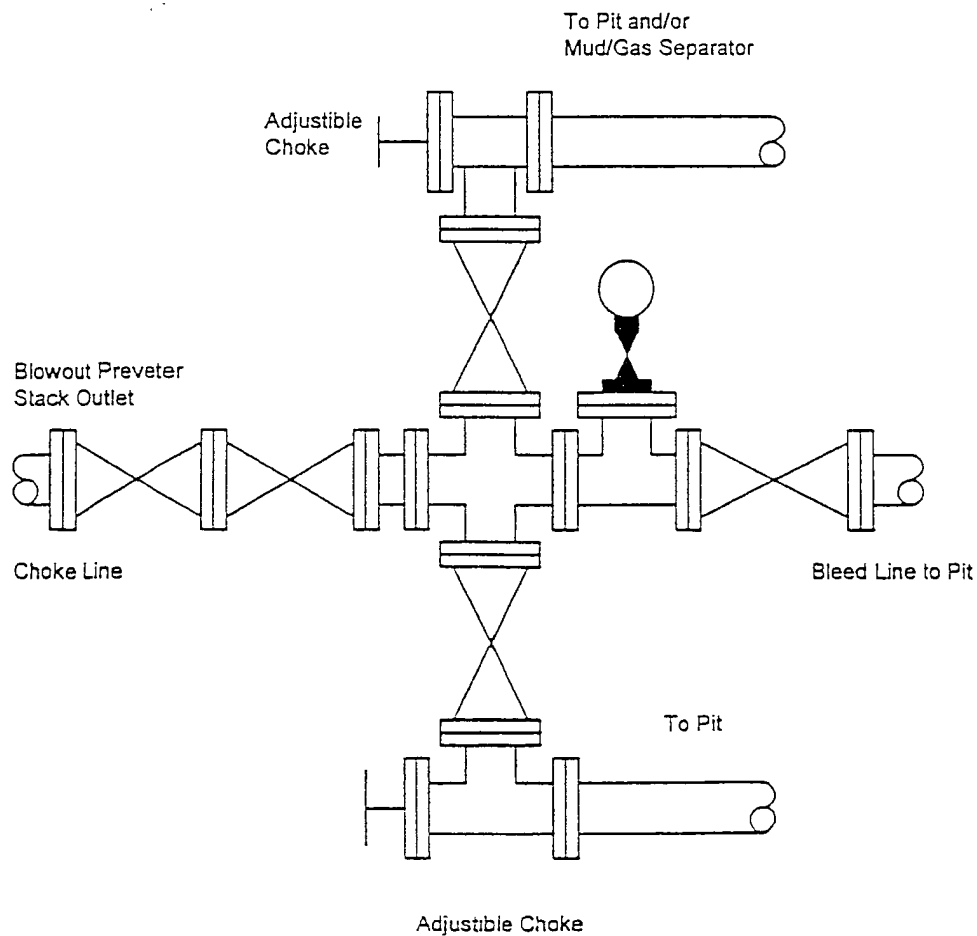
Fill Line

Flow Line



TYPE 1500 SERIES
5000 psi WP

Choke Manifold Assembly for 5M WP System



DISTRICT I --- CHECKLIST FOR INTENTS TO DRILL

Operator THREE RIVERS OPR. OGRID # 272295
 Well Name & # LIVINGSTON RIDGE 36 STATE 4H Surface Type (F)(S)(P) (S)
 Location: UL P Sect 36 Township 22 s, RNG 31 e, Sub-surface Type (F)(S)(P) (S)

- A. Date C101 rec'd 11 / 22 / 2011 C101 reviewed / /
- B. 1. Check mark, Information is OK on Forms:
 OGRID ☒, BONDING ☒, PROP CODE ☒, WELL # 4H, SIGNATURE ☒
 2. Inactive Well list as of: 11 / 23 / 2011 # wells 297 # Inactive wells 3
 a. District Grant APD but see number of inactive wells:
 No letter required ☒; Sent Letter to Operator , to Santa Fe
 3. Additional Bonding as of: 11 / 23 / 2011
 a. District Denial because operator needs addition bonding:
 No Letter required ☒; Sent Letter to Operator , To Santa Fe
 b. District Denial because of Inactive well list and Financial Assurance:
 No Letter required ☒; Sent Letter to Operator , To Santa Fe

- C. C102 YES ☒, NO , Signature ☒
1. Pool LIVINGSTON RIDGE 36 STATE Code
 a. Dedicated acreage 160, What Units
 b. SUR. Location Standard ☒: Non-Standard Location
 c. Well shares acres: Yes , No , # of wells plus this well #
 2. 2nd. Operator in same acreage, Yes , No
 Agreement Letter , Disagreement letter
 3. Intent to Directional Drill Yes ☒, No
 a. Dedicated acreage 160, What Units P-I-H-A
 b. Bottomhole Location Standard ☒, Non-Standard Bottomhole
 4. Downhole Commingle: Yes , No
 a. Pool #2 , Code , Acres
 Pool #3 , Code , Acres
 Pool #4 , Code , Acres

5. POTASH Area Yes , No ☒
- D. Blowout Preventer Yes ☒, No
- E. H2S Yes , No ☒

F. C144 Pit Registration Yes , No

G. Does APD require Santa Fe Approval:

1. Non-Standard Location: Yes , No ☒, NSL #
 2. Non-Standard Proration: Yes , No ☒, NSP #
 3. Simultaneous Dedication: Yes , No ☒, SD #
 Number of wells Plus #
 4. Injection order Yes , No ☒; PMX # or WFX #
 5. SWD order Yes , NO ☒; SWD #
 6. DHC from SF ; DHC-HOB ; Holding

7. OCD Approval Date 11 / 23 / 2011

API #30-0 15-39683

8. Reviewers