

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

Form C-101
Permit 74684

State of New Mexico
Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

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

1. Operator Name and Address BURLINGTON RESOURCES OIL & GAS COMPANY LP 3401 E. 30TH STREET FARMINGTON, NM 87402		2. OGRID Number 14538
		3. API Number 30-045-34701
4. Property Code 6784	5. Property Name ALLISON UNIT	6. Well No. 125S

RCVD MAY 14 '08

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
O	12	32N	07W	O	1175	S	1475	E	SAN JUAN

8. Pool Information

OIL CONS. DIV.

BASIN FRUITLAND COAL (GAS)	71629
BASIN FRUITLAND COAL (GAS)	71629

Additional Well Information

DIST. 3

9. Work Type New Well	10. Well Type GAS	11. Cable/Rotary	12. Lease Type Private	13. Ground Level Elevation 6348
14. Multiple Y	15. Proposed Depth 2988	16. Formation Fruitland Coal	17. Contractor	18. Spud Date
Depth to Ground water 101		Distance from nearest fresh water well > 1000		Distance to nearest surface water > 1000
Pit Liner: Synthetic ☒ 12 mils thick Clay ☐ Pit Volume: 4400 bbls Drilling Method: Closed Loop System ☐ Fresh Water ☒ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐				

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	32.3	600	490	0
Prod	8.75	7	23	2988	1140	0
Liner2	6.25	4.5	11.6	5500	0	0
Liner1	6.25	4.5	11.6	5485	0	0

Casing/Cement Program: Additional Comments

This is a Type 2 Well as indicated in the BR/COPC master drilling plan. Cement volumes are indicated in cubic feet instead of sacks to be used. The pit sundry will be submitted after the APD is approved. Also, this well has two laterals with the same projected bottom hole with depth differences and we are also going into different coals inter-tongues.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	2000	Schaffer

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐ a general permit ☒ or an (attached) alternative OCD-approved plan ☐
Printed Name: Patsy Clugston
Title: Regulatory Specialist
Email Address: clugsp1@conocophillips.com
Date: 5/12/2008 Phone: 505-326-958

OIL CONSERVATION DIVISION

Approved By:

Title: DEPUTY OIL & GAS INSPECTOR, DIST. 3

Approved Date: MAY 15 2008 Expiration Date: MAY 15 2010

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

Hold C104

for Directional Survey
and "As Drilled" plat

MAY 15 2008
ar

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1301 W. Grand Ave., Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
1220 South 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

¹ API Number 30-045-34701	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code 6784	⁵ Property Name ALLISON UNIT	⁶ Well Number 125 S
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6348'

¹⁰ Surface Location

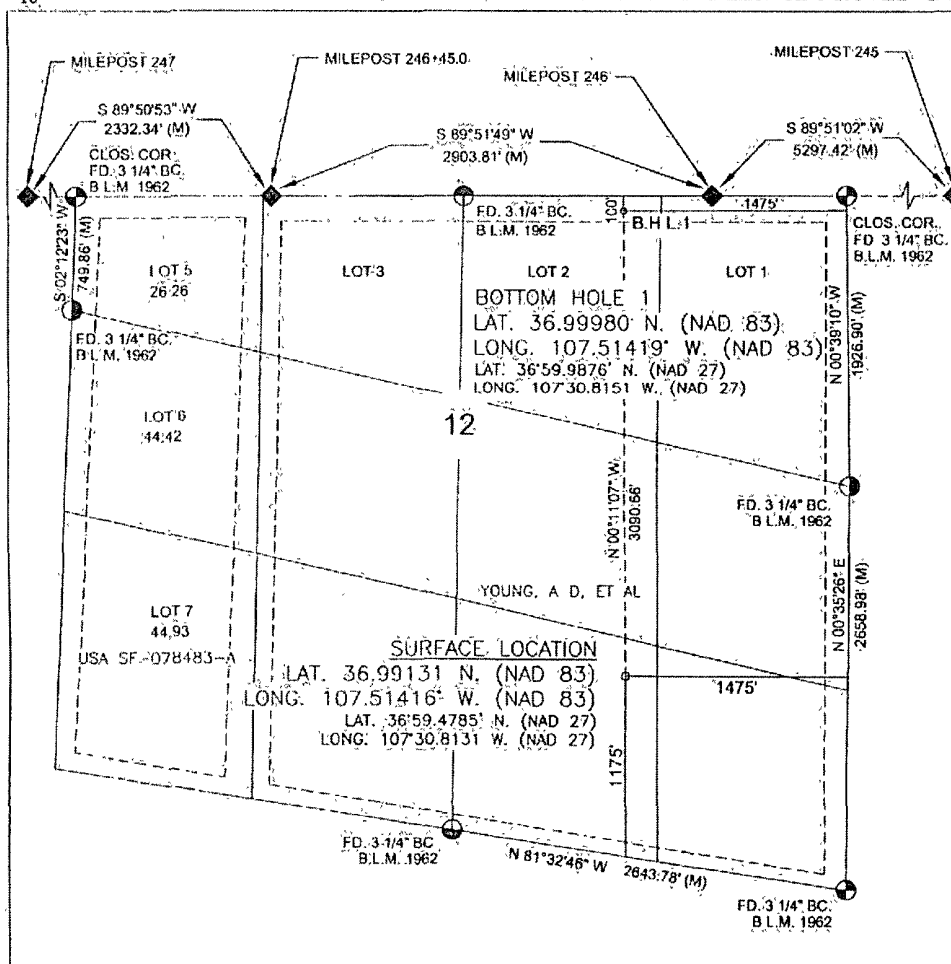
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	12	32-N	7-W		1175	SOUTH	1475	EAST	SAN JUAN

¹¹ 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
2	12	32-N	7-W		100	NORTH	1475	EAST	SAN JUAN
¹² Dedicated Acres 414.90			¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No. NMCD NSP-1581		

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

16



Office

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

Energy, Minerals and Natural Resources

May 27, 2004

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.

30-045-34701

5. Indicate Type of Lease

STATE ☐FEE ☐☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

Allison Unit

8. Well Number

125S

9. OGRID Number

14538

10. Pool name or Wildcat

Basin Fruitland Coal

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH
PROPOSALS.)

1. Type of Well:

Oil Well ☐Gas Well ☒

Other

2. Name of Operator

BURLINGTON RESOURCES OIL & GAS COMPANY LP

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter O : 1175 feet from the South line and 1475 feet from the East line
Section 12 Township 32N Rng 7W NMPM County San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

6348' GR

Pit or Below-grade Tank Application

☐ or Closure ☐Pit type New Drill Depth to Groundwater >100' Distance from nearest fresh water well >1000' Distance from nearest surface water 460'Pit Liner Thickness: 12 mil Below-Grade Tank: Volume 4400 bbls; Construction Material

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐TEMPORARILY ABANDON ☐PULL OR ALTER CASING ☐PLUG AND ABANDON ☐CHANGE PLANS ☐MULTIPLE COMPL ☐

OTHER:

New Drill ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐COMMENCE DRILLING OPNS. ☐CASING/CEMENT JOB ☐ALTERING CASING ☐P AND A ☐OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

New Drill, Lined:

Burlington Resources proposes to construct a new drilling pit, an associated vent/flare pit and a pre-set mud pit (if required). Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit and pre-set mud pit will be lined pits as detailed in Burlington's Revised Drilling / Workover Pit Construction / Operation Procedures dated November 11, 2004 on file at the NMOCD office. A portion of the vent/flare pit will be designed to manage fluids and that portion will be lined as per the risk ranking criteria. Burlington Resources anticipates closing these pits according to the Drilling / Workover Pit Closure Procedure dated August 2, 2004 on file at the NMOCD office.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☒ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Crystal Walker TITLE Regulatory Technician DATE 3/10/2008Type or print name Crystal Walker E-mail address: crystal.walker@conocophillips.com Telephone No. 505-326-9837
For State Use OnlyAPPROVED BY [Signature] TITLE Deputy Oil & Gas Inspector,
Conditions of Approval (if any): District #3 DATE MAY 15 2008

Permit Comments

Operator: BURLINGTON RESOURCES OIL & GAS COMPANY LP , 14538

Well: ALLISON UNIT #125S

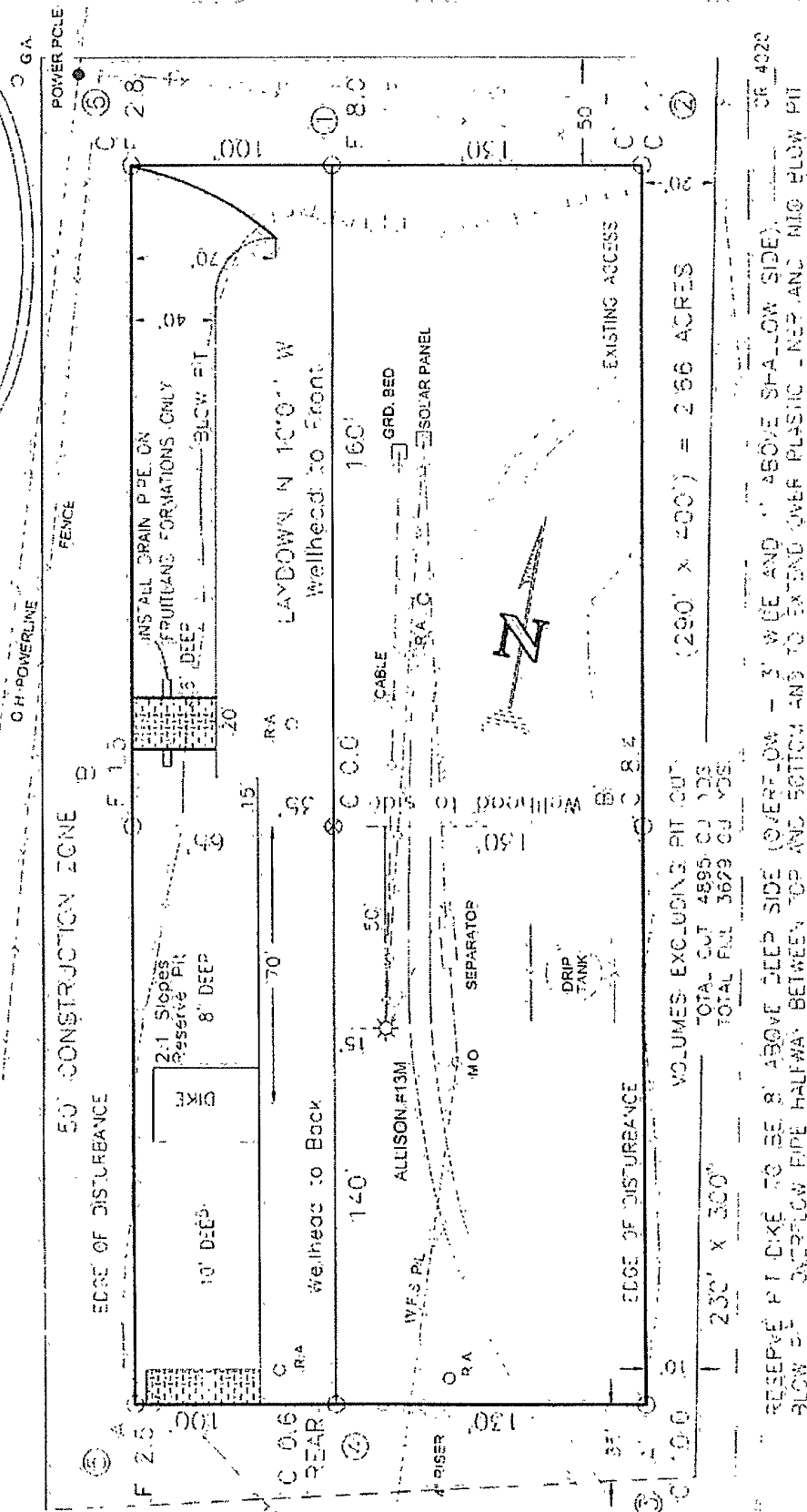
API:

Created By	Comment	Comment Date
PLCLUGSTON	NSP - 1581 dated 8/8/1989	5/12/2008
PLCLUGSTON	Well plat will be delivered to the OCD 5/12/08	5/12/2008
PLCLUGSTON	The directional plan and project proposal will also be delivered to the OCD with the C102	5/12/2008
PLCLUGSTON	Upper Lateral start of production interval @ 2821'(TVD) and end of production interval @ 2822' TVD. Start of production interval @ 3136' MD with end of production interval @ 5485'(MD).	5/12/2008
PLCLUGSTON	Lower Lateral start of production interval @ 2890'(TVD) and end of production interval @ 2908' TVD. Start of production interval @ 3301' MD with end of production interval @ 5500'(MD).	5/12/2008
PLCLUGSTON	There will be a motherbore tail (80') below the lower lateral that will be used a sump for water production and a place to insert a pump if needed.	5/12/2008
PLCLUGSTON	Anti-collision reports are being provided for the two laterals as well as the motherbore. Will be hand delivered with the rest of the documents.	5/12/2008

ALLISON UNIT No. 125 S, 1175 FSL 1475 FEL
SECTION 12, T-32-N, R-7-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 6348' DATE: FEBRUARY 15, 2007

NAD 83
LAT. = 36.99131° N
LONG. = 107.51416° W

NAD 27
LAT. = 36°59.4785' N
LONG. = 107°30.813' W



NOTE: BASELINE INTERPASSES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

NOTE: ESTIMATED VOLUMES CALCULATED BY AVERAGE END AREA AT CROSS-SECTION SHOWN.

NOTIFICATION SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED UTILITIES PRIOR TO CONSTRUCTION. CONSTRUCTION SHALL BE ACCESS POINT AT LEAST TWO (2) WEEKS DATE BEFORE CONSTRUCTION. CONSTRUCTION SHALL BE ACCESS POINT AND BE ACCESS POINT.



Daggett Enterprises, Inc.
Surveying and Oil Field Services
P.O. Box 1059 Fortington, MO 64401
Phone (816) 366-1111 Fax (816) 366-8019
NEW MEXICO, INC. 8894

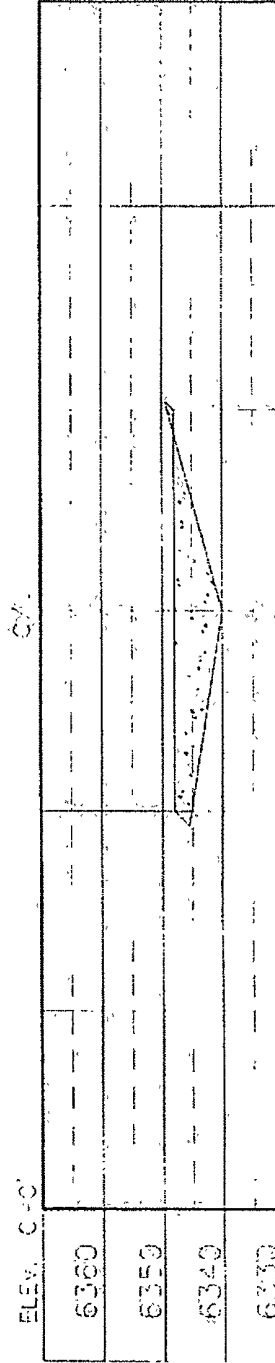
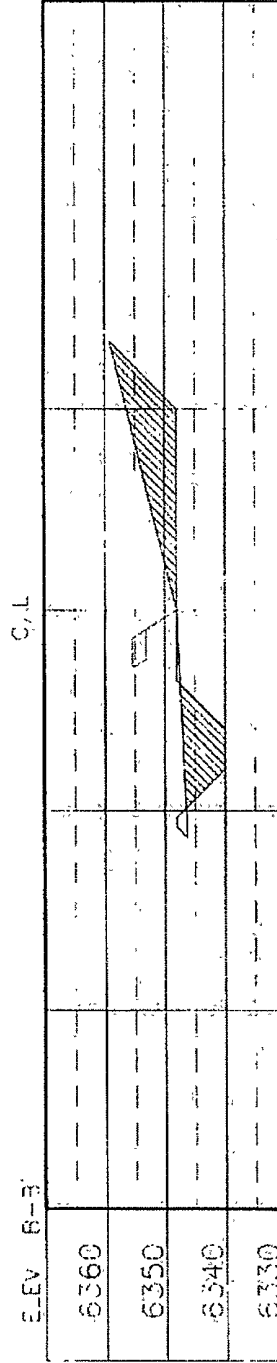
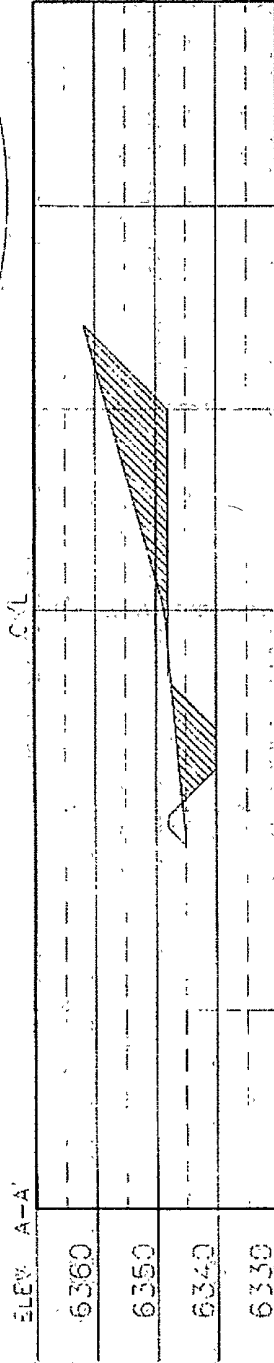
BURLINGTON RESOURCES OIL & GAS COMPANY LP

ALLISON UNIT No. 125 S, 1175 FSL 1475 FEL

SECTION 12, T-32-N, R-7-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO

GROUND ELEVATION: 6348', DATE: FEBRUARY 15, 2007

NAD 83
LAT. = 36.99131° N
LONG. = 107.51416° W
NAD 27
LAT. = 36.59.4785° N
LONG. = 107.30.8131° W



NOTE: DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR LINES IN NEW MEXICO. ONE CALL TO BE ADVISED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

NOTE: CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED UTILITIES OF LINES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.



Daggett Enterprises, Inc.
Surveying and Oil Field Services
P.O. Box 15268 Farmington, NM 87401
Phone (505) 316-1722 • Fax (505) 328-6131
NEW MEXICO L.S. #8894
DRAFT BY B. LEON
DATE 01/17/2007

REVISION NO. 01/17/2007
BY: B. LEON
CHECKED BY: B. LEON
DATE: 01/17/2007

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

ALLISON UNIT 125S

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7042				AFE \$: 3,747,828.83	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 777		State: NM	County: SAN JUAN		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Sturdy, Michael D		Phone: 505-326-9850		Prod. Engineer:		Phone:	
Res. Engineer: Poore, John W		Phone: 505-599-4038		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
JCV	BASIN FRUITLAND COAL (GAS)						
Location: Surface Datum Code: NAD 27 Deviated							
Latitude: 36.991305		Longitude: -107.513553		X:	Y:	Section: 12	Range: 007W
Footage X: 1475 FEL		Footage Y: 1175 FSL		Elevation: 6348 (FT)	Township: 032N		
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Deviated							
Latitude: 36.997995		Longitude: -107.513583		X:	Y:	Section: 12	Range: 007W
Footage X: 1475 FEL		Footage Y: 100 FNL		Elevation:	Township: 032N		
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2008		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6363 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	600	5763	☐			12-1/4" hole. 9-5/8" 32.3 ppf, H-40, STC csg. Cement with 490 cu. ft. Circulate cement to surface.	
OJO ALAMO	2020	4343	☐				
KIRTLAND	2148	4215	☐				
FRUITLAND	2621	3742	☐	200	Gas		
TD 3300' F/SL UPPER LATERAL	2812	3551	☐				
PATH 3000' F/SL UPPER LATERAL	2816	3547	☐				
PATH 2000' F/SL UPPER LATERAL	2828	3535	☐				
PATH 1000' F/SL UPPER LATERAL	2839	3524	☐				
TOP UPPER COAL 700' F/SL	2842	3521	☐				
EXIT MOTHERBORE AT 65 DEGREES	2842	3521	☐				
LAND UPPER COAL 725' F/SL	2842	3521	☐				
TOP TARGET COAL	2849	3514	☐				
BASE UPPER TARGET COAL	2863	3500	☐				
TD LOWER LATERAL	2903	3460	☐				
PATH 3000' FROM SURF LOC	2906	3457	☐				
PATH 2000' FROM SURF LOC	2911	3452	☐				
T/LOWER COAL 1025' F/SL	2914	3449	☐				
LAND LOWER COAL 1100' F/SL	2914	3449	☐				
EXIT MAIN BORE LOWER LATERAL 975' F/SL	2914	3449	☐				
TOP LOWEST COAL	2915	3448	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

ALLISON UNIT 125S

DEVELOPMENT

BASE LOWEST COAL	2921	3442	☐	See document manager for individual wellpath estimates.
PC TONGUE	2958	3405	☐	
Total Depth	2988	3375	☐	8-3/4" hole. 7", 23 ppf, L-80, LTC csg. Cement with 1140 cu. ft. Circulate cement to surface.

Reference Wells:		
Reference Type	Well Name	Comments
Production	ALLISON UNIT 61	07-32N-6W

Logging Program:	
Intermediate Logs:	☐ Log only if show ☐ GR/ILD ☐ Triple Combo

TD Logs:	☒ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
PEX from TD to Kick off point. Mudlog kick off point to TD	

Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

Allison Unit 125S

Directional Plan (Plan No. 1) accompanies this document

GL 6348'

KB 6363' (Aztec 77Z)

surface location:

BHL, mainbore

upper lateral, beginning of productive interval

upper lateral, end of productive interval

lower lateral, beginning of productive interval

lower lateral, end of productive interval

T32N, Ku7W, Section 12, 1175' FSL, 1475' FEL

T32N, R07W, Section 12, 2280' FSL, 1475' FEL

T32N, R07W, Section 12, 2324' FNL, 1475' FEL

T32N, R07W, Section 12, 100' FNL, 1475' FEL

T32N, R07W, Section 12, 2175' FNL, 1475' FEL

T32N, R07W, Section 12, 100' FNL, 1475' FEL

MD
ft

TVD
ft

NA

NA

3531

2988

7" casing depth

3136

2821

casing exit / top of 4-1/2" liner / junction to mainbore

5485

2822

lateral total depth & 4-1/2" casing depth

3301

2890

casing exit / top of 4-1/2" liner / junction to mainbore

5500

2908

lateral total depth & 4-1/2" casing depth

12-1/4" Hole and 9-5/8" Casing at 600' (tentative depth)

Casing description: 9-5/8" 32.3 #/ft, H-40, STC

cementing program: Cement to surface with 490 ft³ (volume includes 150% excess in open hole), mixed at 14.6 ppg with calcium chloride to accelerate, compressive strength 500 psi after 8 hours.

centralizers: one at 10' above shoe and one on each casing collar.

casing exits

8-3/4" Hole & 7" Casing (motherbore)

casing description: 7", 23#/ft, L-80, LTC

cementing program: Cement to surface with 1140 ft³ volume includes 135% excess in open hole), to consist of 919 ft³ lead slurry mixed at 12.1 ppg and 221 ft³ tail slurry mixed at 14.6 ppg. Slurries are extended to achieve stated densities and may include various additives to control seepage. TOC for tail: 100' MD above base of Kirtland Shale

centralizers: one at 10' above shoe, one at 30' above shoe, one at 10' above float collar and one each on casing collars of 2nd, 3rd, 4th and 5th joints.

Two Laterals, Upper and Lower

each consisting of 6-1/4" Hole & 4-1/2" Liner

casing description: 4-1/2" 11.6#/ft, L-80, BTC

uncemented, pre-drilled and plugged, with two holes per joint

BOP program and drilling mud program will be per basin-wide standards for top-set coal wells.



Project: San Juan County, NM
 Site: Sec 12, T32N, R7W (AU 125S)
 Well: Allison Unit 125S
 Wellbore: Motherbore
 Plan: Plan #1 (Allison Unit 125S/Motherbore)



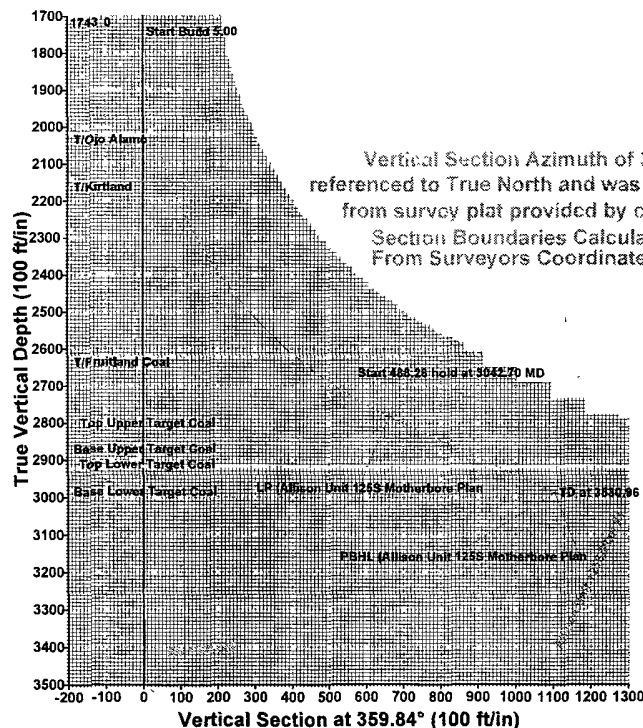
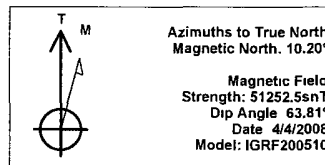
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1742.70	0.00	0.00	1742.70	0.00	0.00	0.00	0.00	0.00	
3	3042.70	65.00	359.84	2781.25	661.63	-1.85	5.00	359.84	861.63	
4	3530.96	65.00	359.84	2987.60	1104.14	-3.08	0.00	0.00	1104.14	PBHL (Allison Unit 125S Motherbore Plan)

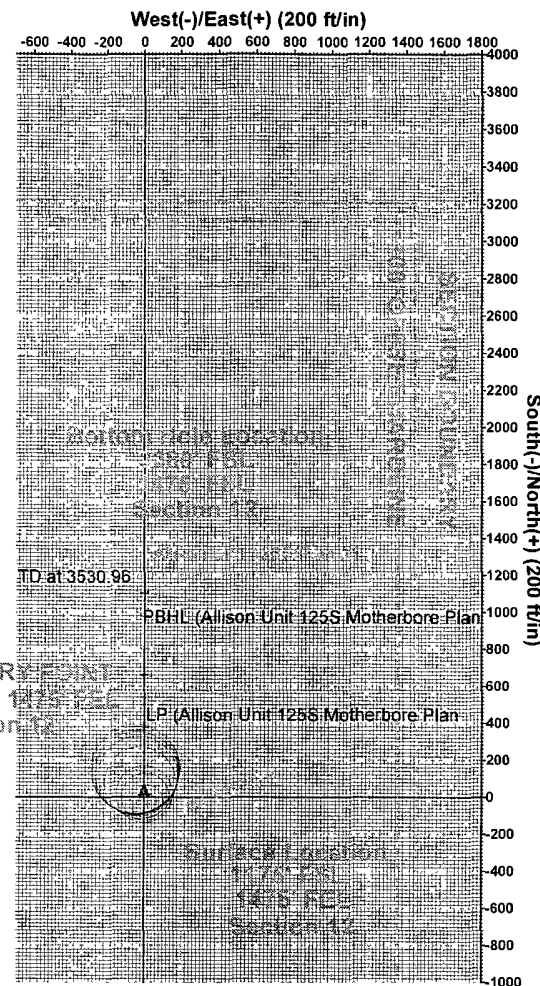
WELL DETAILS: Allison Unit 125S

Ground Elevation: 6348.00
 RKB Elevation: WELL @ 6363.00ft (Original Well Elev)
 Rig Name: Original Well Elev

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	2180261.03	593391.38	36° 59' 28.69848 N	07° 30' 48.79224 W	



PROJECT DETAILS: San Juan County, NM
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico West 3003
 System Datum: Mean Sea Level



Plan: Plan #1 (Allison Unit 125S/Motherbore)
 Created By: Nephi Smith Date: 14:13, April 08 2008

Plan: Plan #1 (Allison Unit 125S/UL)
Created By: Nephi Smith Date: 14:55, April 08 2008

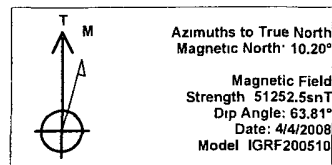


Project: San Juan County, NM
Site: Sec 12, T32N, R7W (AU 125S)
Well: Allison Unit 125S
Wellbore: LL
Plan: Plan #1 (Allison Unit 125S/LL)



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	3300.50	65.00	359.84	2890.20	895.27	-2.50	0.00	0.00	895.28	
2	3425.50	90.00	359.84	2917.04	1016.34	-2.84	20.00	0.00	1016.35	
3	3434.39	90.18	359.84	2917.03	1025.23	-2.86	2.00	0.00	1025.24	
4	4403.72	90.18	359.84	2914.02	1994.56	-5.57	0.00	0.00	1994.57	
5	4409.16	90.29	359.84	2914.00	1999.99	-5.59	2.00	0.00	2000.00	T1 (AU 125S LL)
6	4409.28	90.28	359.84	2914.00	2000.09	-5.59	2.00	180.00	2000.10	
7	5395.04	90.28	359.84	2909.11	2985.86	-8.34	0.00	0.00	2985.87	T2 (AU 125S LL)
8	5409.17	90.57	359.84	2909.00	2999.99	-8.38	2.00	0.00	3000.00	
9	5500.12	90.57	359.84	2908.10	3090.93	-8.63	0.00	0.00	3090.94	PBHL (AU 125S LL)



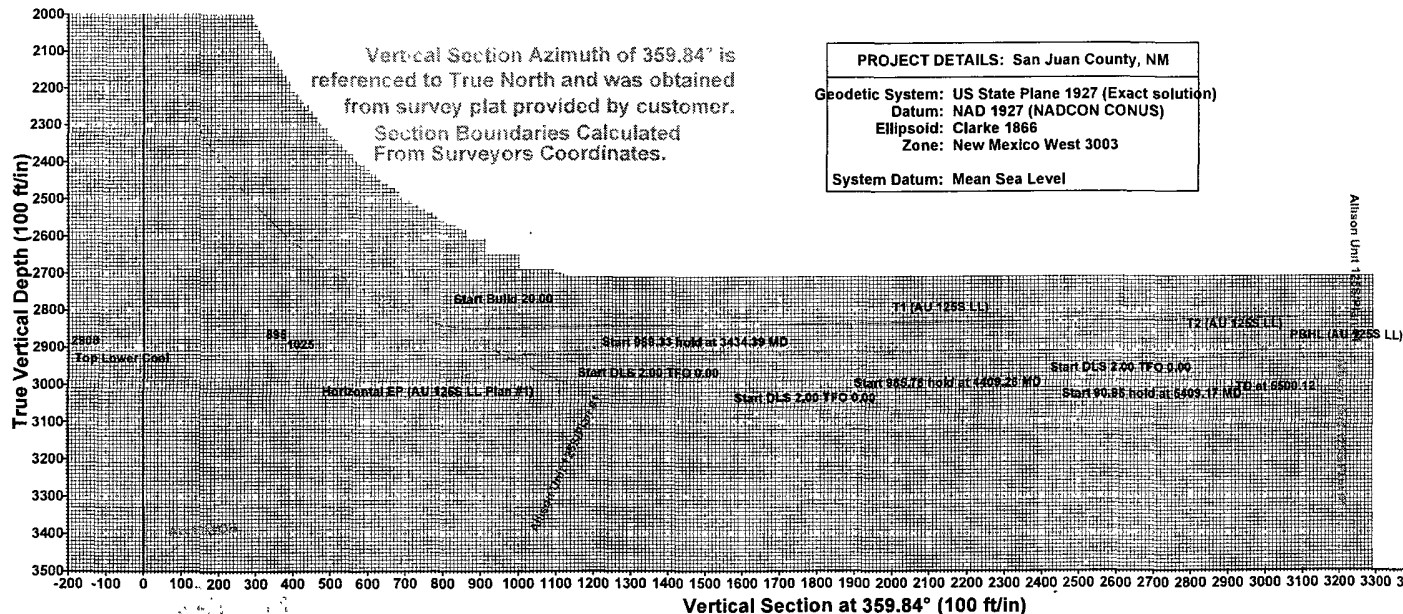
WELL DETAILS: Allison Unit 125S

Ground Elevation: 6348.00
RKB Elevation: WELL @ 6363.00ft (Original Well Elev)
Rig Name: Original Well Elev

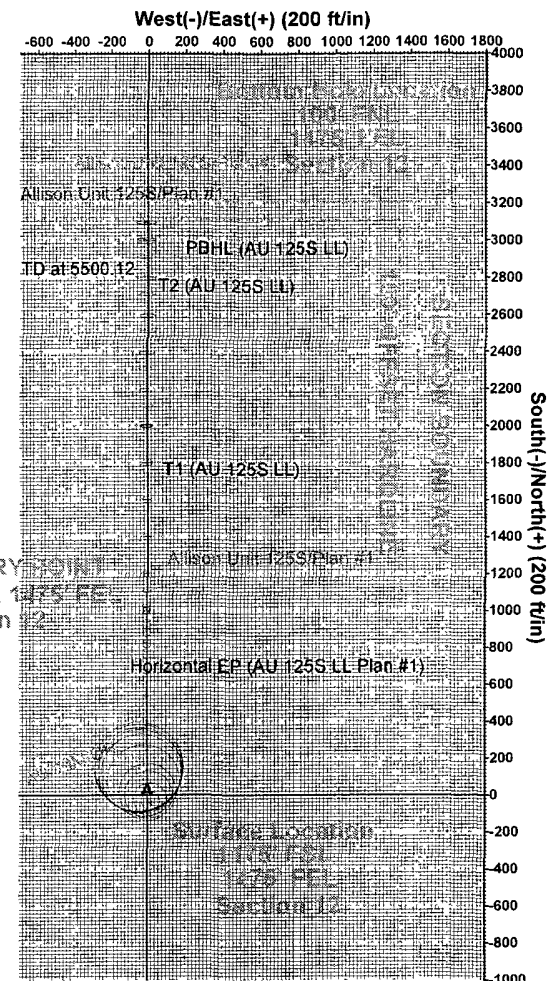
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	2180261.03	593391.38	36° 59' 28.69848 N	07° 30' 48.79224 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL (AU 125S LL)	2908.10	3090.93	-8.63	2183351.91	593372.37	Point
T2 (AU 125S LL)	2909.00	2999.99	-8.38	2183260.97	593372.93	Point
T1 (AU 125S LL)	2914.00	1999.99	-5.59	2182260.99	593379.08	Point



PROJECT DETAILS: San Juan County, NM
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico West 3003
System Datum: Mean Sea Level



Plan: Plan #1 (Allison Unit 125S/LL)
Created By: Nephi Smith Date: 14.32, April 08 2008