

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

JUN 07 2011

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

Farmington Field Office
Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

7 If Unit of CA/Agreement, Name and/or No.

1 Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

8 Well Name and No.
Schalk 32 #1A

2. Name of Operator

Williams Production Company, LLC

9. API Well No.

30-039-30915

3a. Address

PO Box 640 Aztec, NM 87410

3b. Phone No (include area code)

505-634-4206

10 Field and Pool or Exploratory Area
Basin Fruitland Coal

4. Location of Well (Footage, Sec., T, R, M., or Survey Description)

1965' FNL & 660' FWL, section 32, T31N, R4W

1800' FNL & 1500' FEL

11. Country or Parish, State
Rio Arriba

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

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

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

5/27/11 - MIRU Hurricane #9 Drill & circ out fill to 3770', drill CIBP @ 3770'

5/28/11 Drill float collar & 35' of shoe it to 3864' PBDT, circ hole clean. Perforate Fruitland coal intervals 3788'-3804', 3808'-3812', 3815'-3817' w/ 3 1/8" OD slick guns, 19 grm chg, .43 dia holes, 46" penetration, total of 88 holes in 7" csg

5/29/11 - 6/3/11 Circ and CO well

6/4/2011 Land 2 7/8" 6.5# J55 eue tbg as follows 119 jts, 2 28" F-npl @ 3817', 1/2 muleshoe mud anchor @ 3850', perms fruitland coal 3788'-3804', 3808'-3812', 3815'-3817'. TIH w/ pump & rods as follows top down: 26' x 1 1/4" PR, 6' & 8' x 3/4" pony rods, 147 - 3/4" plain rods, 4 - 1 1/2" sinker bars, 2 1/2" x 1 1/2" x 20 RWAC pump w/ sand shield; load 2 7/8" tbg w/ prod wtr & tst to 500 psi.

ACCEPTED FOR RECORD

JUN 10 2011

14 I hereby certify that the foregoing is true and correct Name (Printed/Typed) Ben Mitchell	Title Regulatory Specialist BY <u>SCJ</u>
Signature <u>Ben Mitchell</u>	Date <u>6/7/11</u>

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	
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.		

NMOCDA

District I
1625 N. French Dr., Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos 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
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number		*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL
*Property Code	*Property Name SCHALK 32		*Well Number 1A
*GRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY		*Elevation 6978'

¹⁰ Surface Location

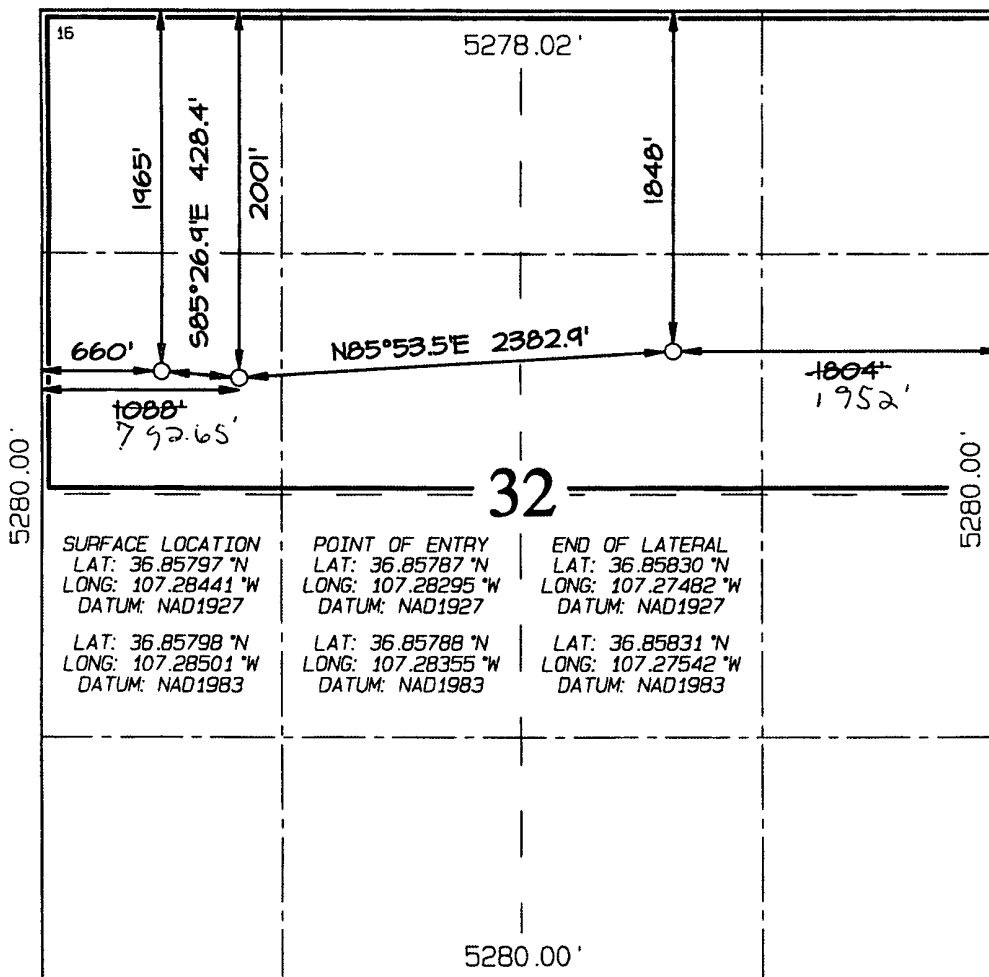
UL or lot no. E	Section 32	Township 31N	Range 4W	Lot Idn	Feet from the 1965	North/South line NORTH	Feet from the 660	East/West line WEST	County RIO ARriba
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. G	Section 32	Township 31N	Range 4W	Lot Idn	Feet from the 1848	North/South line NORTH	Feet from the 1804	East/West line EAST	County RIO ARriba
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¹² Dedicated Acres 320.0 Acres - (N/2)					¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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



¹⁷ 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.

B. Mitchell 4/7/11
Signature Date
Ben Mitchell
Printed Name

¹⁸ 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.

Date of Revisions: MAY 21, 2011
Survey Date: SEPTEMBER 9, 2008

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



Williams Production

Rio Arriba County

Schalk 32

#1A

ST02

Design: ST02

Pathfinder X&Y Planning Report

17 May, 2011

PATHFINDER

A Schlumberger Company



Smith International, Inc.
Pathfinder X&Y Planning Report

PATHFINDER
A Schlumberger Company

Company:	Williams Production	Local Co-ordinate Reference:	Well #1A
Project:	Rio Arriba County	TVD Reference:	RKB-12' @ 6990.00usft (Aztec 781)
Site:	Schalk 32	MD Reference:	RKB-12' @ 6990.00usft (Aztec 781)
Well:	#1A	North Reference:	True
Wellbore:	ST02	Survey Calculation Method:	Minimum Curvature
Design:	ST02	Database:	EDM 5000.1 Single User Db

Project:	Rio Arriba County		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico Central 3002		

Site:	Schalk 32		
Site Position:		Northing:	2,133,165.99 usft
From:	Lat/Long	Easting:	197,376.03 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	36° 51' 28.692 N
		Longitude:	107° 17' 3.876 W
		Grid Convergence:	-0.62 °

Well	#1A		
Well Position	+N/-S	0.00 usft	Northing: 2,133,165.99 usft
	+E/-W	0.00 usft	Easting: 197,376.03 usft
Position Uncertainty	0.00 usft		Latitude: 36° 51' 28.692 N
		Wellhead Elevation:	usft
			Longitude: 107° 17' 3.876 W
			Ground Level: 6,978.00 usft

Wellbore	ST02				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF200510	04/01/11	9.71	63.68	50,917

Design	ST02				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	159.41	



Smith International, Inc.
Pathfinder X&Y Planning Report

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Well:	#1A	North Reference:	True
Wellbore:	ST02	Survey Calculation Method:	Minimum Curvature
Design:	ST02	Database:	EDM 5000.1 Single-User Db

Survey Program		Date	05/17/11		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
293.38	3,339.10	Scientific Gyro MWD (ST02)	MWD	MWD - Standard	
3,378.00	6,260.00	MWD (ST02)	MWD	MWD - Standard	

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	6,990.00	0.00	0.00	0.00	0.00	2,133,165.99	197,376.03
293.38	1.06	152.40	293.36	6,696.64	-2.40	1.26	2.69	0.36	2,133,163.58	197,377.26
421.12	1.23	156.45	421.08	6,568.92	-4.71	2.35	5.24	0.15	2,133,161.26	197,378.33
548.86	1.23	160.93	548.79	6,441.21	-7.26	3.35	7.98	0.08	2,133,158.70	197,379.30
674.84	1.06	143.88	674.74	6,315.26	-9.48	4.48	10.45	0.30	2,133,156.47	197,380.41
761.84	0.97	147.57	761.73	6,228.27	-10.75	5.35	11.95	0.13	2,133,155.18	197,381.26
1,047.44	0.79	146.78	1,047.30	5,942.70	-14.44	7.72	16.23	0.06	2,133,151.47	197,383.60
1,233.67	0.79	139.31	1,233.51	5,756.49	-16.49	9.26	18.69	0.06	2,133,149.41	197,385.11
1,425.56	0.88	140.54	1,425.38	5,564.62	-18.63	11.06	21.33	0.05	2,133,147.25	197,386.89
1,618.63	1.23	155.30	1,618.42	5,371.58	-21.66	12.87	24.80	0.23	2,133,144.20	197,388.67
1,809.58	0.88	148.18	1,809.33	5,180.67	-24.76	14.50	28.28	0.20	2,133,141.07	197,390.26
2,000.37	0.53	140.71	2,000.11	4,989.89	-26.69	15.83	30.55	0.19	2,133,139.13	197,391.57
2,192.83	0.35	164.53	2,192.56	4,797.44	-27.95	16.55	31.98	0.13	2,133,137.87	197,392.28
2,382.10	0.18	122.96	2,381.83	4,608.17	-28.67	16.95	32.80	0.13	2,133,137.15	197,392.67
2,573.31	0.18	290.65	2,573.04	4,416.96	-28.72	16.92	32.84	0.19	2,133,137.09	197,392.64
2,765.51	0.26	314.21	2,765.24	4,224.76	-28.31	16.33	32.25	0.06	2,133,137.51	197,392.05
2,956.74	0.53	293.55	2,956.46	4,033.54	-27.66	15.21	31.24	0.16	2,133,138.17	197,390.94
3,148.47	0.62	295.14	3,148.18	3,841.82	-26.86	13.46	29.88	0.05	2,133,138.99	197,389.20
3,339.10	0.88	277.73	3,338.80	3,651.20	-26.23	11.07	28.44	0.18	2,133,139.65	197,386.82
3,378.00	3.78	87.00	3,377.67	3,612.33	-26.12	12.06	28.69	11.95	2,133,139.75	197,387.80
3,410.00	7.83	85.93	3,409.50	3,580.50	-25.91	15.29	29.63	12.66	2,133,139.92	197,391.04



Smith International, Inc.
Pathfinder X&Y Planning Report

PATHFINDER
A Schlumberger Company

Company: Williams Production
Project: Rio Arriba County
Site: Schalk 32
Well: #1A
Wellbore: ST02
Design: ST02

Local Co-ordinate Reference: Well #1A
TVD Reference: RKB-12' @ 6990.00usft (Aztec 781)
MD Reference: RKB-12' @ 6990.00usft (Aztec 781)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc. (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
3,437.00	11.34	84.35	3,436.12	3,553.88	-25.52	19.76	30.84	13.04	2,133,140.26	197,395.52
3,469.00	15.21	80.16	3,467.26	3,522.74	-24.49	27.03	32.43	12.45	2,133,141.21	197,402.80
3,502.00	19.43	84.16	3,498.76	3,491.24	-23.19	36.76	34.64	13.28	2,133,142.41	197,412.54
3,533.00	23.57	85.39	3,527.60	3,462.40	-22.17	48.08	37.66	13.43	2,133,143.31	197,423.86
3,561.00	26.82	87.46	3,552.93	3,437.07	-21.44	59.97	41.16	12.02	2,133,143.91	197,435.77
3,592.00	28.84	97.33	3,580.36	3,409.64	-22.08	74.38	46.83	16.21	2,133,143.11	197,450.17
3,623.00	35.61	100.54	3,606.57	3,383.43	-24.69	90.69	55.01	22.52	2,133,140.32	197,466.45
3,654.00	42.74	98.93	3,630.59	3,359.41	-27.98	109.98	64.87	23.23	2,133,136.83	197,485.70
3,686.00	48.72	97.48	3,652.91	3,337.09	-31.23	132.65	75.89	18.97	2,133,133.33	197,508.33
3,718.00	54.61	95.65	3,672.76	3,317.24	-34.08	157.57	87.33	18.94	2,133,130.21	197,533.23
3,750.00	58.39	91.64	3,690.42	3,299.58	-35.76	184.19	98.26	15.77	2,133,128.24	197,559.83
3,782.00	61.20	95.68	3,706.52	3,283.48	-37.54	211.78	109.62	14.00	2,133,126.16	197,587.39
3,814.00	62.61	92.62	3,721.59	3,268.41	-39.58	239.93	121.43	9.52	2,133,123.82	197,615.52
3,845.00	65.16	95.44	3,735.24	3,254.76	-41.54	267.69	133.03	11.59	2,133,121.56	197,643.26
3,877.00	69.82	94.45	3,747.49	3,242.51	-44.08	297.13	145.77	14.84	2,133,118.70	197,672.67
3,909.00	73.60	91.02	3,757.53	3,232.47	-45.52	327.47	157.79	15.59	2,133,116.93	197,702.99
3,941.00	75.53	85.88	3,766.05	3,223.95	-44.68	358.29	167.84	16.62	2,133,117.44	197,733.82
3,973.00	78.17	80.58	3,773.34	3,216.66	-41.00	389.22	175.27	18.11	2,133,120.78	197,764.78
4,006.00	82.92	78.74	3,778.76	3,211.24	-35.16	421.23	181.06	15.41	2,133,126.28	197,796.86
4,012.00	83.46	78.75	3,779.47	3,210.53	-33.99	427.08	182.03	9.07	2,133,127.38	197,802.71
Top of Coal @4012.00'MD;3779.47'TVD;182.03'VS										
4,038.00	85.82	78.81	3,781.90	3,208.10	-28.96	452.47	186.24	9.07	2,133,132.14	197,828.16
4,070.00	88.99	78.97	3,783.34	3,206.66	-22.80	483.83	191.51	9.92	2,133,137.96	197,859.59
4,103.00	89.43	80.98	3,783.80	3,206.20	-17.06	516.32	197.56	6.23	2,133,143.35	197,892.14
4,135.00	88.99	82.55	3,784.24	3,205.76	-12.47	547.99	204.41	5.09	2,133,147.59	197,923.85
4,167.00	89.25	82.79	3,784.73	3,205.27	-8.39	579.72	211.75	1.11	2,133,151.32	197,955.63
4,199.00	89.96	83.95	3,784.95	3,205.05	-4.70	611.51	219.47	4.25	2,133,154.67	197,987.45



Smith International, Inc.
Pathfinder X&Y Planning Report



Company:	Williams Production	Local Co-ordinate Reference:	Well #1A
Project:	Rio Arriba County	TVD Reference:	RKB-12' @ 6990.00usft (Aztec 781)
Site:	Schalk 32	MD Reference:	RKB-12' @ 6990.00usft (Aztec 781)
Well:	#1A	North Reference:	True
Wellbore:	ST02	Survey Calculation Method:	Minimum Curvature
Design:	ST02	Database:	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
4,263.00	91.19	85.07	3,784.31	3,205.69	1.43	675.21	236.14	2.60	2,133,160.11	198,051.21
4,327.00	90.84	85.48	3,783.18	3,206.82	6.70	738.98	253.63	0.84	2,133,164.69	198,115.04
4,391.00	90.04	84.85	3,782.69	3,207.31	12.09	802.75	271.01	1.59	2,133,169.39	198,178.86
4,455.00	88.37	85.11	3,783.57	3,206.43	17.69	866.49	288.19	2.64	2,133,174.30	198,242.67
4,519.00	88.72	85.09	3,785.20	3,204.80	23.16	930.24	305.49	0.55	2,133,179.07	198,306.47
4,582.00	89.34	85.98	3,786.27	3,203.73	28.06	993.04	322.99	1.72	2,133,183.30	198,369.32
4,647.00	89.78	86.30	3,786.76	3,203.24	32.44	1,057.89	341.70	0.84	2,133,186.97	198,434.21
4,710.00	90.57	85.75	3,786.57	3,203.43	36.80	1,120.74	359.72	1.53	2,133,190.66	198,497.10
4,775.00	90.40	86.44	3,786.02	3,203.98	41.23	1,185.58	378.38	1.09	2,133,194.38	198,561.99
4,838.00	90.13	86.55	3,785.73	3,204.27	45.08	1,248.46	396.89	0.46	2,133,197.55	198,624.91
4,902.00	87.85	85.49	3,786.86	3,203.14	49.52	1,312.29	415.18	3.93	2,133,201.30	198,688.79
4,967.00	88.99	85.30	3,788.65	3,201.35	54.74	1,377.06	433.08	1.78	2,133,205.81	198,753.60
5,031.00	88.72	85.26	3,789.93	3,200.07	60.00	1,440.83	450.58	0.43	2,133,210.39	198,817.43
5,094.00	89.78	86.97	3,790.75	3,199.25	64.27	1,503.68	468.69	3.19	2,133,213.97	198,880.32
5,158.00	90.13	88.05	3,790.80	3,199.20	67.05	1,567.61	488.57	1.77	2,133,216.06	198,944.28
5,221.00	90.13	87.41	3,790.66	3,199.34	69.55	1,630.56	508.37	1.02	2,133,217.88	199,007.25
5,285.00	90.48	88.62	3,790.32	3,199.68	71.76	1,694.52	528.79	1.97	2,133,219.40	199,071.23
5,349.00	90.66	88.15	3,789.68	3,200.32	73.57	1,758.50	549.60	0.79	2,133,220.51	199,135.22
5,414.00	91.10	87.21	3,788.69	3,201.31	76.20	1,823.43	569.98	1.60	2,133,222.44	199,200.18
5,477.00	90.84	87.64	3,787.62	3,202.38	79.03	1,886.36	589.46	0.80	2,133,224.59	199,263.14
5,541.00	90.48	86.84	3,786.88	3,203.12	82.11	1,950.28	609.06	1.37	2,133,226.98	199,327.09
5,605.00	90.75	86.10	3,786.20	3,203.80	86.05	2,014.16	627.84	1.23	2,133,230.22	199,391.00
5,669.00	90.66	85.14	3,785.41	3,204.59	90.94	2,077.96	645.70	1.51	2,133,234.42	199,454.86
5,733.00	91.01	85.79	3,784.48	3,205.52	96.00	2,141.76	663.40	1.15	2,133,238.79	199,518.70
5,795.00	86.61	84.47	3,785.76	3,204.24	101.26	2,203.50	680.19	7.41	2,133,243.38	199,580.50
5,858.00	87.67	84.85	3,788.91	3,201.09	107.11	2,266.15	696.75	1.79	2,133,248.56	199,643.21
5,922.00	89.78	84.92	3,790.33	3,199.67	112.82	2,329.88	713.82	3.30	2,133,253.57	199,706.99



Smith International, Inc.
Pathfinder X&Y Planning Report



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Well:	#1A	North Reference:	True
Wellbore:	ST02	Survey Calculation Method:	Minimum Curvature
Design:	ST02	Database:	EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
5,986.00	89.96	85.63	3,790.48	3,199.52	118.09	2,393.66	731.32	1.14	2,133,258.15	199,770.83
6,050.00	90.57	85.85	3,790.18	3,199.82	122.84	2,457.48	749.31	1.01	2,133,262.21	199,834.70
6,114.00	90.66	85.87	3,789.49	3,200.51	127.46	2,521.31	767.44	0.14	2,133,266.14	199,898.57
6,177.00	91.19	86.49	3,788.48	3,201.52	131.66	2,584.16	785.61	1.29	2,133,269.66	199,961.47
6,260.00	91.19	86.49	3,786.75	3,203.25	136.74	2,666.99	809.99	0.00	2,133,273.84	200,044.34

Projection to Bit @6260.00'MD;3786.75'TVD;809.99'VS

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,012.00	3,779.47	-33.99	427.08	Top of Coal @4012.00'MD;3779.47'TVD;182.03'VS
6,260.00	3,786.75	136.74	2,666.99	Projection to Bit @6260.00'MD;3786.75'TVD;809.99'VS

Checked By: _____ Approved By: _____ Date: _____