

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

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.**

5. Lease Serial No. NMNM 33955

6. If Indian, Allottee or Tribe Name

NA

SUBMIT IN TRIPLICATE - Other instructions on page 2
HOBBS OCD

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator R360 Permian Basin LLC

JUL 27 2015

3a. Address 3 Waterway Square Place, Suite 110
The Woodlands, TX 77380

3b. Phone No. (include area code)
(832) 442-2200 **RECEIVED**

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

8. Well Name and No. Halfway SWD #1

9. API Well No. NA 30-025-42545 -

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
845' S & 1030' W T20S R32E S22 SW1/4

10. Field and Pool or Exploratory Area
Blue Bird Drill Island

11. Country or Parish, State
Lea, New Mexico

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	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☒ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat 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 recompleat 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.)

Requesting to stop fishing after 5 failed attempts, set 300' 17.5# class H plug and directionally sidetrack around.

Current hole depth: 2,214'

Fishi in the hole: Ulterra 17 1/2" PDC 2.00'

Bit sub(Cobra) 2.00'

Motor (Cobra) 5.4"

Total fish 9.4'

Please see attached report and cement plans.

BLM bond : 929591818

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Jeremy Cannady

Engineering, Larson and Associates, Inc.

Title

Signature

Date

07/01/2015

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

JUL 17 2015

/s/ Chris Walls

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

**BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD 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.

JUL 27 2015



Proposal No: 1001180312A

R360 ENVIRONMENTAL SOLUTIONS INC
HALFWAY SWD FEDERAL #1

API # 30-025-42545-0000
SWD Field
22M-20S-32E
Lea County, New Mexico
July 12, 2015

Cement Proposal

Prepared for:
Dallas Frazier

Prepared by:
Meseret A Belayneh

Service Point:
PP, HOBBS
Bus Phone: 575-3925556
Fax: 575-492-0292

Service Representatives:
Matthew R Johnson
Account Manager
Bus Phone: 432-695-8938

Powered by
PowerVision

Operator Name: R360 ENVIRONMENTAL SOLUTIONS INC
Well Name: HALFWAY SWD FEDERAL #1
Job Description: Kickoff Plug (2,214')
Date: July 12, 2015



Proposal No: 1001180312A

JOB AT A GLANCE

Depth (TVD)	2,214 ft
Depth (MD)	2,214 ft
Hole Size	17.5 in
Casing Size/Weight	20 in, 72.2 lbs/ft
Pump Via	Casing 4 1/2" O.D. (1.000" I.D.) 11.6
Total Mix Water Required	2,502 gals
Pre-Flush	
Fresh Water	20 bbls
Spacer	
MudClean II	40 bbls
Plug Slurry	
Class H + Additives	750 sacks
Density	17.5 ppg
Yield	0.94 cf/sack
Displacement	
Fresh Water	2 bbls

Operator Name: R360 ENVIRONMENTAL SOLUTIONS INC
 Well Name: HALFWAY SWD FEDERAL #1
 Job Description: Kickoff Plug (2,214')
 Date: July 12, 2015



Proposal No: 1001180312A

FLUID SPECIFICATIONS

Pre-Flush 20.0 bbls Fresh Water

Spacer = 40.0 bbls MudClean II

<u>PLUG NO.</u>	<u>VOLUME CU-FT</u>	<u>VOLUME FACTOR</u>	<u>AMOUNT AND TYPE OF CEMENT</u>
1	708	.94	= 750 sacks Premium Plus H Cement + 1.2% bwoc CD-32 + 2% bwow Sodium Chloride + 0.005 lbs/sack Static Free + 0.005 gps FP-6L + 29.6% Fresh Water

Displacement = 1.8 bbls Fresh Water

CEMENT PROPERTIES

	<u>PLUG NO.1</u>
Slurry Weight (ppg)	17.50
Slurry Yield (cf/sack)	0.94
Amount of Mix Water (gps)	3.34
Amount of Mix Fluid (gps)	3.34

PLUG GEOMETRY

	<u>PLUG TOP</u>		<u>PLUG BOTTOM</u>	
1	1914 ft	to	2214 ft	with 17.5 inch Open Hole

Operator: R360 ENVIRONMENTAL SOLUTIONS INC
 Well Name: HALFWAY SWD FEDERAL #1
 Job Description: Kickoff Plug (2,214')
 Date: July 12, 2015



Proposal No: 1001180312A

PRICE ESTIMATE

Product Material

QTY	UNIT	PRODUCT DESCRIPTION	NET AMOUNT
418	lbs	Sodium Chloride	91.29
1680	gals	Mud Clean II	1,199.52
846	lbs	CD-32	4,725.76
4	gals	FP-6L	175.14
4	lbs	Static Free	68.38
750	94lbs	Premium Plus H Cement	12,411.00
Product Material Subtotal:			\$18,671.09

Service Charges

QTY	UNIT	PRODUCT DESCRIPTION	NET AMOUNT
1	day	Service Supervisor - daily charge	613.20
1	ea	Personnel Per Diem Chrg - Cement Svc	210.00
781	cu ft	Bulk Materials Blending Charge	1,787.71
1	job	Automatic Density System	835.80
Service Charges Subtotal:			\$3,446.71

Equipment

QTY	UNIT	PRODUCT DESCRIPTION	NET AMOUNT
1	day	Hi-Volume Air Compressor	312.90
1	4hrs	Cement Pumping, 2001 - 3000 ft	2,205.00
2	pump/hr	Fuel per pump charge - cement	59.01
1	job	Data Acquisition, Cement, Standard	894.60
1	day	2 in Valve	62.16
120	miles	Mileage, Heavy Vehicle	597.24
60	miles	Mileage, Auto, Pick-Up or Treating Van	168.84
1	job	Field Storage Bin, Up To 5 Days	695.10
Equipment Subtotal:			\$4,994.85

Customer will be charged for all 'SPECIAL PROPPANTS' delivered to location, whether they are pumped or not. All proppants other than standard grade frac sand are considered 'SPECIAL PROPPANTS'.

The technical data contained in this proposal is based on the best information available at the time of writing and is subject to further analysis and testing. The pricing data contained in this proposal are estimates only and may vary depending on the work actually performed. Pricing does not include federal, state and local taxes or royalties.

This quotation is based on Baker Hughes being awarded the work on a first call basis and within thirty (30) days of the proposal date. These prices will be subject to review if the work is done after thirty (30) days from the proposal date, or on a second or third call basis.

R360 Permian Basin LLC

Lea Co, New Mexico (Nad-83_2010)

Halfway SWD Fed #1

Halfway SWD Fed #1

30-025-42545

Wellbore #1

Plan: ST Design #1

Standard Planning Report

12 July, 2015



M3P Directional Services

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Halfway SWD Fed #1
Company:	R360 Permian Basin LLC	TVD Reference:	WELL @ 3560.00usft (Original Well Elev)
Project:	Lea Co, New Mexico (Nad-83_2010)	MD Reference:	WELL @ 3560.00usft (Original Well Elev)
Site:	Halfway SWD Fed #1	North Reference:	Grid
Well:	Halfway SWD Fed #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	ST Design #1		

Project	Lea Co, New Mexico (Nad-83_2010)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Halfway SWD Fed #1, Sec 22, T-20S, R-32E				
Site Position:		Northing:	565,676.20 usft	Latitude:	32° 33' 13.644 N
From:	Map	Easting:	718,199.16 usft	Longitude:	103° 45' 33.541 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.31 °

Well	Halfway SWD Fed #1					
Well Position	+N/-S	0.00 usft	Northing:	565,676.20 usft	Latitude:	32° 33' 13.644 N
	+E/-W	0.00 usft	Easting:	718,199.16 usft	Longitude:	103° 45' 33.541 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	3,560.00 usft	Ground Level:	3,534.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/9/2015	7.20	60.36	48,387

Design	ST Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	0.00

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	1.50	180.00	1,999.99	-1.31	0.00	1.50	1.50	0.00	180.00	
2,100.00	3.00	180.00	2,099.91	-5.23	0.00	1.50	1.50	0.00	0.00	
2,200.00	3.00	180.00	2,199.77	-10.47	0.00	0.00	0.00	0.00	0.00	
2,466.00	1.00	0.01	2,465.68	-15.11	0.00	1.50	-0.75	-67.67	-180.00	
2,766.00	1.00	0.01	2,765.63	-9.87	0.00	0.00	0.00	0.00	0.00	
3,282.00	1.00	0.01	3,281.55	-0.87	0.00	0.00	0.00	0.00	0.00	
3,382.00	0.00	0.00	3,381.55	0.00	0.00	1.00	-1.00	0.00	180.00	
16,000.00	0.00	0.00	15,999.55	0.00	0.00	0.00	0.00	0.00	0.00	

M3P Directional Services

Planning Report



Database: EDM 5000.1 Single User Db
 Company: R360 Permian Basin LLC
 Project: Lea Co, New Mexico (Nad-83_2010)
 Site: Halfway SWD Fed #1
 Well: Halfway SWD Fed #1
 Wellbore: Wellbore #1
 Design: ST Design #1

Local Co-ordinate Reference: Site Halfway SWD Fed #1
 TVD Reference: WELL @ 3560.00usft (Original Well Elev)
 MD Reference: WELL @ 3560.00usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,060.00	0.00	0.00	1,060.00	0.00	0.00	0.00	0.00	0.00	0.00
20" Casing									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Sidetrack									
2,000.00	1.50	180.00	1,999.99	-1.31	0.00	-1.31	1.50	1.50	0.00
2,100.00	3.00	180.00	2,099.91	-5.23	0.00	-5.23	1.50	1.50	0.00
2,200.00	3.00	180.00	2,199.77	-10.47	0.00	-10.47	0.00	0.00	0.00
Passing Fish									
2,300.00	1.50	180.00	2,299.69	-14.39	0.00	-14.39	1.50	-1.50	0.00
2,400.00	0.01	0.50	2,399.68	-15.69	0.00	-15.69	1.50	-1.49	-179.50
2,466.00	1.00	0.01	2,465.68	-15.11	0.00	-15.11	1.50	1.50	-0.75
2,500.00	1.00	0.01	2,499.67	-14.52	0.00	-14.52	0.00	0.00	0.00
2,600.00	1.00	0.01	2,599.66	-12.77	0.00	-12.77	0.00	0.00	0.00
2,700.00	1.00	0.01	2,699.64	-11.03	0.00	-11.03	0.00	0.00	0.00
2,766.00	1.00	0.01	2,765.63	-9.87	0.00	-9.87	0.00	0.00	0.00
2,800.00	1.00	0.01	2,799.63	-9.28	0.00	-9.28	0.00	0.00	0.00
2,900.00	1.00	0.01	2,899.61	-7.54	0.00	-7.54	0.00	0.00	0.00
13 3/8" Casing									
3,000.00	1.00	0.01	2,999.60	-5.79	0.00	-5.79	0.00	0.00	0.00
3,100.00	1.00	0.01	3,099.58	-4.04	0.00	-4.04	0.00	0.00	0.00
3,200.00	1.00	0.01	3,199.57	-2.30	0.00	-2.30	0.00	0.00	0.00
3,282.00	1.00	0.01	3,281.55	-0.87	0.00	-0.87	0.00	0.00	0.00
3,300.00	0.82	0.01	3,299.55	-0.58	0.00	-0.58	1.00	-1.00	0.00
3,382.00	0.00	0.00	3,381.55	0.00	0.00	0.00	1.00	-1.00	0.00
3,400.00	0.00	0.00	3,399.55	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,499.55	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,599.55	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,699.55	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,799.55	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,899.55	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	3,999.55	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,099.55	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,199.55	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,299.55	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,399.55	0.00	0.00	0.00	0.00	0.00	0.00

M3P Directional Services

Planning Report



Database: EDM 5000.1 Single User Db
 Company: R360 Permian Basin LLC
 Project: Lea Co, New Mexico (Nad-83_2010)
 Site: Halfway SWD Fed #1
 Well: Halfway SWD Fed #1
 Wellbore: Wellbore #1
 Design: ST Design #1

Local Co-ordinate Reference: Site Halfway SWD Fed #1
 TVD Reference: WELL @ 3560.00usft (Original Well Elev)
 MD Reference: WELL @ 3560.00usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,500.00	0.00	0.00	4,499.55	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,599.55	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,699.55	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,799.55	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,899.55	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	4,999.55	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,099.55	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8" Casing									
5,200.00	0.00	0.00	5,199.55	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,299.55	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,399.55	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,499.55	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,599.55	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,699.55	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,799.55	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,899.55	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	5,999.55	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,099.55	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,199.55	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,299.55	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,399.55	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,499.55	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,599.55	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,699.55	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,799.55	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,899.55	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	6,999.55	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,099.55	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,199.55	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,299.55	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,399.55	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,499.55	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,599.55	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,699.55	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,799.55	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,899.55	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	7,999.55	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,099.55	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,199.55	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,299.55	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,399.55	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,499.55	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,599.55	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,699.55	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,799.55	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,899.55	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	8,999.55	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,099.55	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,199.55	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,299.55	0.00	0.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,399.55	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,499.55	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,599.55	0.00	0.00	0.00	0.00	0.00	0.00

M3P Directional Services

Planning Report



Database: EDM 5000.1 Single User Db
 Company: R360 Permian Basin LLC
 Project: Lea Co, New Mexico (Nad-83_2010)
 Site: Halfway SWD Fed #1
 Well: Halfway SWD Fed #1
 Wellbore: Wellbore #1
 Design: ST Design #1

Local Co-ordinate Reference: Site Halfway SWD Fed #1
 TVD Reference: WELL @ 3560.00usft (Original Well Elev)
 MD Reference: WELL @ 3560.00usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,700.00	0.00	0.00	9,699.55	0.00	0.00	0.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,799.55	0.00	0.00	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,899.55	0.00	0.00	0.00	0.00	0.00	0.00
10,000.00	0.00	0.00	9,999.55	0.00	0.00	0.00	0.00	0.00	0.00
10,100.00	0.00	0.00	10,099.55	0.00	0.00	0.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,199.55	0.00	0.00	0.00	0.00	0.00	0.00
10,300.00	0.00	0.00	10,299.55	0.00	0.00	0.00	0.00	0.00	0.00
10,400.00	0.00	0.00	10,399.55	0.00	0.00	0.00	0.00	0.00	0.00
10,500.00	0.00	0.00	10,499.55	0.00	0.00	0.00	0.00	0.00	0.00
10,600.00	0.00	0.00	10,599.55	0.00	0.00	0.00	0.00	0.00	0.00
10,700.00	0.00	0.00	10,699.55	0.00	0.00	0.00	0.00	0.00	0.00
10,800.00	0.00	0.00	10,799.55	0.00	0.00	0.00	0.00	0.00	0.00
10,900.00	0.00	0.00	10,899.55	0.00	0.00	0.00	0.00	0.00	0.00
11,000.00	0.00	0.00	10,999.55	0.00	0.00	0.00	0.00	0.00	0.00
11,100.00	0.00	0.00	11,099.55	0.00	0.00	0.00	0.00	0.00	0.00
11,200.00	0.00	0.00	11,199.55	0.00	0.00	0.00	0.00	0.00	0.00
11,300.00	0.00	0.00	11,299.55	0.00	0.00	0.00	0.00	0.00	0.00
11,400.00	0.00	0.00	11,399.55	0.00	0.00	0.00	0.00	0.00	0.00
11,500.00	0.00	0.00	11,499.55	0.00	0.00	0.00	0.00	0.00	0.00
11,600.00	0.00	0.00	11,599.55	0.00	0.00	0.00	0.00	0.00	0.00
11,700.00	0.00	0.00	11,699.55	0.00	0.00	0.00	0.00	0.00	0.00
11,800.00	0.00	0.00	11,799.55	0.00	0.00	0.00	0.00	0.00	0.00
11,900.00	0.00	0.00	11,899.55	0.00	0.00	0.00	0.00	0.00	0.00
12,000.00	0.00	0.00	11,999.55	0.00	0.00	0.00	0.00	0.00	0.00
12,100.00	0.00	0.00	12,099.55	0.00	0.00	0.00	0.00	0.00	0.00
12,200.00	0.00	0.00	12,199.55	0.00	0.00	0.00	0.00	0.00	0.00
12,300.00	0.00	0.00	12,299.55	0.00	0.00	0.00	0.00	0.00	0.00
12,400.00	0.00	0.00	12,399.55	0.00	0.00	0.00	0.00	0.00	0.00
12,500.00	0.00	0.00	12,499.55	0.00	0.00	0.00	0.00	0.00	0.00
12,600.00	0.00	0.00	12,599.55	0.00	0.00	0.00	0.00	0.00	0.00
12,700.00	0.00	0.00	12,699.55	0.00	0.00	0.00	0.00	0.00	0.00
12,800.00	0.00	0.00	12,799.55	0.00	0.00	0.00	0.00	0.00	0.00
12,900.00	0.00	0.00	12,899.55	0.00	0.00	0.00	0.00	0.00	0.00
13,000.00	0.00	0.00	12,999.55	0.00	0.00	0.00	0.00	0.00	0.00
13,100.00	0.00	0.00	13,099.55	0.00	0.00	0.00	0.00	0.00	0.00
13,200.00	0.00	0.00	13,199.55	0.00	0.00	0.00	0.00	0.00	0.00
13,300.00	0.00	0.00	13,299.55	0.00	0.00	0.00	0.00	0.00	0.00
13,400.00	0.00	0.00	13,399.55	0.00	0.00	0.00	0.00	0.00	0.00
13,500.00	0.00	0.00	13,499.55	0.00	0.00	0.00	0.00	0.00	0.00
13,600.00	0.00	0.00	13,599.55	0.00	0.00	0.00	0.00	0.00	0.00
13,700.00	0.00	0.00	13,699.55	0.00	0.00	0.00	0.00	0.00	0.00
13,800.00	0.00	0.00	13,799.55	0.00	0.00	0.00	0.00	0.00	0.00
13,900.00	0.00	0.00	13,899.55	0.00	0.00	0.00	0.00	0.00	0.00
14,000.00	0.00	0.00	13,999.55	0.00	0.00	0.00	0.00	0.00	0.00
14,100.00	0.00	0.00	14,099.55	0.00	0.00	0.00	0.00	0.00	0.00
14,200.00	0.00	0.00	14,199.55	0.00	0.00	0.00	0.00	0.00	0.00
14,300.00	0.00	0.00	14,299.55	0.00	0.00	0.00	0.00	0.00	0.00
7" Casing									
14,400.00	0.00	0.00	14,399.55	0.00	0.00	0.00	0.00	0.00	0.00
14,500.00	0.00	0.00	14,499.55	0.00	0.00	0.00	0.00	0.00	0.00
14,600.00	0.00	0.00	14,599.55	0.00	0.00	0.00	0.00	0.00	0.00
14,700.00	0.00	0.00	14,699.55	0.00	0.00	0.00	0.00	0.00	0.00
14,800.00	0.00	0.00	14,799.55	0.00	0.00	0.00	0.00	0.00	0.00
14,900.00	0.00	0.00	14,899.55	0.00	0.00	0.00	0.00	0.00	0.00

M3P Directional Services

Planning Report



Database: EDM 5000.1 Single User Db
Company: R360 Permian Basin LLC
Project: Lea Co, New Mexico (Nad-83_2010)
Site: Halfway SWD Fed #1
Well: Halfway SWD Fed #1
Wellbore: Wellbore #1
Design: ST Design #1

Local Co-ordinate Reference: Site Halfway SWD Fed #1
TVD Reference: WELL @ 3560.00usft (Original Well Elev)
MD Reference: WELL @ 3560.00usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,000.00	0.00	0.00	14,999.55	0.00	0.00	0.00	0.00	0.00	0.00
15,100.00	0.00	0.00	15,099.55	0.00	0.00	0.00	0.00	0.00	0.00
15,200.00	0.00	0.00	15,199.55	0.00	0.00	0.00	0.00	0.00	0.00
15,300.00	0.00	0.00	15,299.55	0.00	0.00	0.00	0.00	0.00	0.00
15,400.00	0.00	0.00	15,399.55	0.00	0.00	0.00	0.00	0.00	0.00
15,500.00	0.00	0.00	15,499.55	0.00	0.00	0.00	0.00	0.00	0.00
15,600.00	0.00	0.00	15,599.55	0.00	0.00	0.00	0.00	0.00	0.00
15,700.00	0.00	0.00	15,699.55	0.00	0.00	0.00	0.00	0.00	0.00
15,800.00	0.00	0.00	15,799.55	0.00	0.00	0.00	0.00	0.00	0.00
15,900.00	0.00	0.00	15,899.55	0.00	0.00	0.00	0.00	0.00	0.00
16,000.00	0.00	0.00	15,999.55	0.00	0.00	0.00	0.00	0.00	0.00

Casing Points

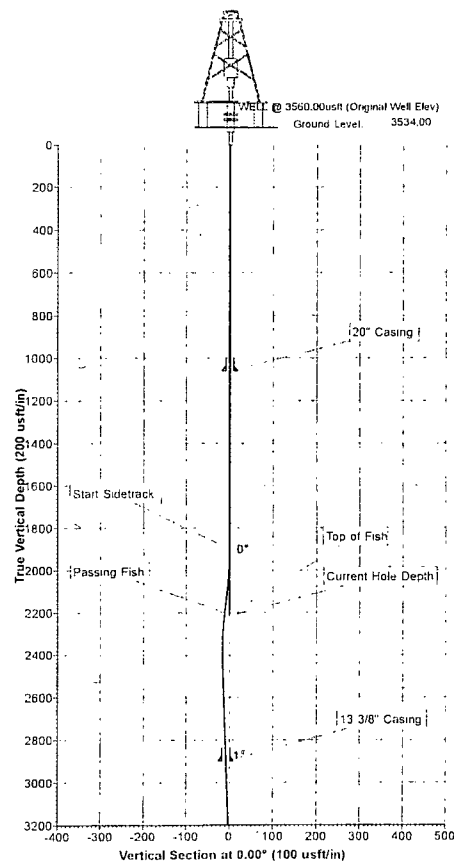
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,060.00	1,060.00	20" Casing	20	26
2,900.00	2,899.61	13 3/8" Casing	13-3/8	17-1/2
5,100.00	5,099.55	9 5/8" Casing	9-5/8	12-1/4
14,300.00	14,299.55	7" Casing	7	8-1/2

Plan Annotations

Measured	Vertical	Local Coordinates		
Depth	Depth	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	Comment
1,900.00	1,900.00	0.00	0.00	Start Sidetrack
2,200.00	2,199.77	-10.47	0.00	Passing Fish

R360 Permian Basin LLC

Project: Lea Co, New Mexico (Nad-83_2010)
Well: Halfway SWD Fed #1
Wellbore: Wellbore #1
Design: ST Design #1



Map System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone Name: New Mexico Eastern Zone
Local Origin: Site Halfway SWD Fed #1, Grid North
Latitude: 32° 33' 13.644 N
Longitude: 103° 45' 33.541 W
Grid East: 718199.16
Grid North: 565676.20
Scale Factor: 1.000
Geomagnetic Model: IGRF2010
Sample Date: 06-Jul-15
Magnetic Declination: 7.20°
Dip Angle from Horizontal: 60.36°
Magnetic Field Strength: 48387
To convert a Magnetic Direction to a Grid Direction, Add 6.89°
To convert a Magnetic Direction to a True Direction, Add 7.20° East
To convert a True Direction to a Grid Direction, Subtract 0.31°

LEGEND
— Halfway SWD Fed #1, Wellbore #1, Rig Survey #1
— ST Design #1

WELL DETAILS						
			Ground Level	3534.00		
N-S	E-W	North	East	Latitude	Longitude	
0.00	0.00	565676.20	718199.16	32° 33' 13.644 N	103° 45' 33.541 W	

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	N-S	E-W	Deg	TFace	VSec	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00		Start Sidetrack
3	2000.00	1.50	180.00	1999.99	-1.31	0.00	1.50	180.00	-1.31		
4	2100.00	3.00	180.00	2099.91	-5.23	0.00	1.50	0.00	-5.23		
5	2200.00	3.00	180.00	2199.77	-10.47	0.00	0.00	0.00	-10.47		Passing Fish
6	2405.00	1.20	0.00	2405.08	-15.11	0.00	1.50	-180.00	-15.11		
7	2765.00	1.00	0.00	2765.63	-8.87	0.00	0.00	0.00	-8.87		
8	3287.00	1.00	0.00	3281.55	-0.87	0.00	0.00	0.00	-0.87		
9	3382.00	0.00	0.00	3381.55	0.00	0.00	1.00	180.00	0.00		
10	15732.00	0.00	0.00	15731.55	0.00	0.00	0.00	0.00	0.00		



Azimuths to Grid North
True North: -0.31°
Magnetic North: 6.89°
Magnetic Field
Strength: 48386.55nT
Dip Angle: 60.36°
Date: 7/9/2015
Model: IGRF2010

