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 1625 N. French Dr., Hobbs, NM 88240
 District II - (575) 748-1283
 811 S. First St., Artesia, NM 88210
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 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV - (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM
 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

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 ☒ SWD		WELL API NO. 30-025-24285 5. Indicate Type of Lease STATE ☐ FEE ☒ 6. State Oil & Gas Lease No.
2. Name of Operator SOUTHWEST ROYALTIES, INC.		7. Lease Name or Unit Agreement Name CROSSROADS SILURO DEVONIAN UNIT 8. Well Number #310
3. Address of Operator P.O. BOX 53570; MIDLAND, TEXAS 79710		9. OGRID Number 21355 10. Pool name or Wildcat CROSSROADS; SILURO DEVONIAN
4. Well Location Unit Letter P : 986 feet from the SOUTH line and 1001 feet from the EAST line Section 27 Township 09S Range 36E NMPM LEA County		
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4,034' GR		

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐	OTHER: ☐	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 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

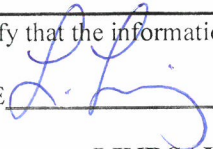
CHANGE OF PLANS

Found a very tight spot and drag from 10856'-11600'. We set a balance cement plug from 10620'-11282' with 310 sxs Class "H" cement. WOC 24 hrs, tag top of cement at 10620'.

Sidetrack plans: Kick off at 10620' and build "S" curve 100' away from top of fish.

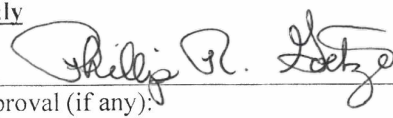
**** Wellbore Diagram and Deviation Program are Attached. ****

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE  TITLE REGULATORY ANALYST DATE 08/10/2021

Type or print name LINDSAY LIVESAY E-mail address: llivesay@swrpermian.com PHONE: (432) 207-3054

For State Use Only

APPROVED BY:  TITLE UIC Manager DATE 08/10/2021

Conditions of Approval (if any):

CSDU #310 Re-Entry (Previously Sawyer #10 P&A) - NEW WBD**1000' FEL & 986' FSL, Sec 27, T9S, R36E Lea County, NM**

33.5006409, -103.23909

API # 30-025-24285

Spud: 11/8/1972

TD: 1/4/1973

P&A: 2/1/1973

8 Plugs: 730' Total

Datum 4034'

SURFACE

17-1/2" Hole

13 3/8" 48# H40 @ 260'

Set: 11/9/1972

365 sx. Class C (2% CC)

Circ 90 sx to surface

INTERMEDIATE

12-3/4" Hole

9-5/8" 36# K55 @ 4250'

Set: 11/17/1972

1540 sx. Class C

Circ 100 sx to surface

PRODUCTION

8-3/4" Hole (no csg)

Formation Tops

Rustler: 2233'

Yates: 2830'

Queen: 3553'

San Andres: 4094'

Glorietta: 5517'

Abo: 7692'

Miss: 11658'

Woodford: 12060'

Dev: 12136'

DV Tool: 4050'

7" x 3x5" Nickel Coated
pkr will be set @ ~12,080'
on 3-1/2" 9.3# IPC tbg

Plug 8: 10,620'- 11,282'
310 sx Class H

Unknown Fish Top @ 11700'

TD = 12,190

PROPOSED SIDETRACK

Angle off cmt plug @ 10,620'

NEW PRODUCTION

8-3/4" Hole

7" 32# L80 @ 12136'

CMT - 2 STG

DV Tool @ 4050'

Stage 1

705 sx NeoChem (Class H)

Stage 2

395 sx ExtendaChem (Class C)

Total = 1100 sx; TOC = surf

COMPLETION

5 7/8" OH Dev Completion:

12130' - 12350'

10,000 gal 20% HCl

+/- 100'

New TVD: 12,350'

Drawn	BY
8/10/2021	TPC

SOUTHWEST ROYALTIES, INC

P.O. BOX 53570

Midland, TX 79710

CSDU #310

1000' FEL, 986' FSL

SEC 27 T9S R36E

Lea County, NM

Southwest Royalties

Lea County, New Mexico (NAD83)

CSDU

CSDU #310 (Re-Entry)

Wellbore #2

Plan: Sidetrack Design #3

Standard Planning Report

09 August, 2021



Stryker Directional Planning Report



Database:	EDM5000	Local Co-ordinate Reference:	Well CSDU #310 (Re-Entry)
Company:	Southwest Royalties	TVD Reference:	RKB @ 4051.00usft (Norton Rig #2)
Project:	Lea County, New Mexico (NAD83)	MD Reference:	RKB @ 4051.00usft (Norton Rig #2)
Site:	CSDU	North Reference:	True
Well:	CSDU #310 (Re-Entry)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
Design:	Sidetrack Design #3		

Project	Lea County, New Mexico (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	CSDU				
Site Position:		Northing:	911,448.1915 usft	Latitude:	33° 30' 2.307 N
From:	Lat/Long	Easting:	874,907.4231 usft	Longitude:	103° 14' 20.724 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.60 °

Well	CSDU #310 (Re-Entry)					
Well Position	+N/-S	0.00 usft	Northing:	911,448.1915 usft	Latitude:	33° 30' 2.307 N
	+E/-W	0.00 usft	Easting:	874,907.4231 usft	Longitude:	103° 14' 20.724 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	4,034.00 usft

Wellbore	Wellbore #2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	8/1/2021	6.47	61.09	48,261.39880662

Design	Sidetrack Design #3				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	10,600.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	257.75	

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
10,600.00	1.88	299.73	10,598.09	23.89	-120.69	0.00	0.00	0.00	0.00	
10,620.00	1.69	303.75	10,618.08	24.22	-121.22	1.12	-0.93	20.09	148.10	
10,753.75	5.00	120.00	10,751.69	22.40	-117.81	5.00	2.47	131.78	177.19	
11,428.75	5.00	120.00	11,424.12	-7.01	-66.86	0.00	0.00	0.00	0.00	
11,678.75	0.00	0.00	11,673.81	-12.47	-57.42	2.00	-2.00	0.00	180.00	
12,350.00	0.00	0.00	12,345.06	-12.47	-57.42	0.00	0.00	0.00	0.00	

Stryker Directional Planning Report



Database:	EDM5000	Local Co-ordinate Reference:	Well CSDU #310 (Re-Entry)
Company:	Southwest Royalties	TVD Reference:	RKB @ 4051.00usft (Norton Rig #2)
Project:	Lea County, New Mexico (NAD83)	MD Reference:	RKB @ 4051.00usft (Norton Rig #2)
Site:	CSDU	North Reference:	True
Well:	CSDU #310 (Re-Entry)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
Design:	Sidetrack Design #3		

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
56.70	0.81	279.51	56.70	0.07	-0.40	0.37	1.43	1.43	0.00
75.00	1.06	268.57	75.00	0.08	-0.69	0.66	1.65	1.34	-59.83
100.00	0.62	255.27	99.99	0.04	-1.05	1.02	1.90	-1.74	-53.17
125.00	0.49	301.62	124.99	0.07	-1.27	1.23	1.81	-0.50	185.38
150.00	1.20	109.35	149.99	0.03	-1.12	1.09	6.74	2.83	670.94
175.00	0.65	272.57	174.99	-0.05	-1.01	1.00	7.32	-2.22	652.88
200.00	0.78	291.51	199.99	0.02	-1.31	1.28	1.08	0.55	75.74
225.00	0.90	278.95	224.98	0.12	-1.66	1.60	0.87	0.46	-50.22
250.00	1.16	279.41	249.98	0.19	-2.11	2.02	1.06	1.06	1.84
275.00	1.02	275.27	274.98	0.25	-2.58	2.47	0.66	-0.58	-16.58
300.00	0.87	175.97	299.97	0.08	-2.79	2.71	5.78	-0.58	-397.18
325.00	1.06	152.43	324.97	-0.31	-2.67	2.67	1.73	0.74	-94.16
350.00	0.89	143.09	349.97	-0.67	-2.45	2.53	0.93	-0.69	-37.36
375.00	0.78	179.30	374.96	-1.00	-2.33	2.49	2.11	-0.41	144.85
400.00	0.74	166.45	399.96	-1.33	-2.29	2.52	0.70	-0.16	-51.41
425.00	0.80	154.38	424.96	-1.64	-2.17	2.47	0.68	0.22	-48.27
450.00	1.13	152.72	449.96	-2.02	-1.99	2.37	1.32	1.32	-6.66
475.00	0.75	147.59	474.95	-2.37	-1.79	2.25	1.55	-1.51	-20.50
500.00	1.55	188.11	499.95	-2.85	-1.75	2.31	4.36	3.18	162.07
525.00	1.08	180.93	524.94	-3.41	-1.80	2.48	1.98	-1.87	-28.74
550.00	1.09	155.75	549.94	-3.87	-1.70	2.48	1.89	0.06	-100.71
575.00	0.87	153.24	574.93	-4.25	-1.52	2.39	0.89	-0.87	-10.06
600.00	0.75	162.27	599.93	-4.58	-1.38	2.32	0.71	-0.49	36.12
625.00	1.39	194.69	624.93	-5.03	-1.41	2.45	3.43	2.56	129.69
650.00	1.34	178.70	649.92	-5.62	-1.48	2.64	1.53	-0.20	-63.96
675.00	1.13	101.17	674.92	-5.96	-1.23	2.47	6.22	-0.87	-310.10
700.00	1.17	93.84	699.91	-6.02	-0.74	2.00	0.61	0.18	-29.32
725.00	0.50	102.31	724.91	-6.06	-0.37	1.65	2.71	-2.67	33.86
750.00	1.09	123.40	749.90	-6.22	-0.07	1.39	2.58	2.34	84.36
775.00	0.90	239.82	774.90	-6.45	-0.04	1.41	6.78	-0.76	465.70
800.00	1.19	227.39	799.90	-6.72	-0.40	1.82	1.47	1.17	-49.74
825.00	0.86	206.13	824.89	-7.07	-0.68	2.16	2.00	-1.33	-85.03
850.00	0.72	242.60	849.89	-7.31	-0.90	2.43	2.05	-0.56	145.87
875.00	0.98	235.42	874.89	-7.50	-1.21	2.78	1.11	1.02	-28.70
900.00	0.34	83.39	899.89	-7.61	-1.31	2.90	5.15	-2.53	-608.13
925.00	1.17	219.74	924.89	-7.80	-1.40	3.02	5.74	3.30	545.39
950.00	0.98	227.17	949.88	-8.14	-1.72	3.41	0.93	-0.75	29.72
975.00	0.81	235.28	974.88	-8.39	-2.02	3.76	0.84	-0.67	32.46
1,000.00	1.13	244.01	999.88	-8.60	-2.39	4.16	1.40	1.27	34.90
1,025.00	1.18	266.24	1,024.87	-8.72	-2.87	4.65	1.80	0.22	88.92
1,050.00	1.04	229.40	1,049.87	-8.89	-3.30	5.11	2.86	-0.58	-147.34
1,075.00	1.23	228.51	1,074.86	-9.21	-3.67	5.54	0.78	0.77	-3.56
1,100.00	0.77	251.21	1,099.86	-9.44	-4.03	5.94	2.40	-1.84	90.78
1,125.00	0.83	236.98	1,124.86	-9.60	-4.34	6.28	0.82	0.22	-56.91
1,150.00	1.82	253.29	1,149.85	-9.81	-4.88	6.85	4.22	3.98	65.25
1,175.00	0.82	245.17	1,174.84	-10.00	-5.42	7.42	4.06	-4.00	-32.49
1,200.00	1.26	283.59	1,199.84	-10.01	-5.85	7.84	3.20	1.75	153.70
1,225.00	0.98	273.97	1,224.83	-9.93	-6.33	8.29	1.35	-1.12	-38.50
1,250.00	0.81	274.44	1,249.83	-9.90	-6.72	8.67	0.68	-0.68	1.89
1,275.00	0.98	270.96	1,274.83	-9.88	-7.11	9.05	0.71	0.67	-13.92
1,300.00	0.94	280.95	1,299.82	-9.84	-7.53	9.44	0.68	-0.14	39.96
1,325.00	1.60	298.88	1,324.82	-9.63	-8.03	9.89	3.02	2.61	71.71
1,350.00	1.35	289.73	1,349.81	-9.37	-8.61	10.41	1.36	-0.99	-36.60

Stryker Directional Planning Report



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Project:	Lea County, New Mexico (NAD83)	MD Reference:	RKB @ 4051.00usft (Norton Rig #2)
Site:	CSDU	North Reference:	True
Well:	CSDU #310 (Re-Entry)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
Design:	Sidetrack Design #3		

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)
1,375.00	0.64	293.48	1,374.81	-9.21	-9.02	10.77	2.83	-2.82	15.01
1,400.00	0.78	279.66	1,399.80	-9.13	-9.32	11.04	0.88	0.56	-55.26
1,425.00	0.64	299.08	1,424.80	-9.03	-9.61	11.30	1.11	-0.57	77.67
1,450.00	1.00	287.00	1,449.80	-8.90	-9.94	11.60	1.60	1.45	-48.34
1,475.00	1.07	301.29	1,474.79	-8.71	-10.34	11.96	1.07	0.27	57.19
1,500.00	1.16	281.80	1,499.79	-8.54	-10.79	12.36	1.56	0.38	-77.98
1,525.00	1.05	275.97	1,524.79	-8.47	-11.27	12.81	0.63	-0.44	-23.33
1,550.00	0.87	286.54	1,549.78	-8.39	-11.68	13.19	1.02	-0.74	42.30
1,575.00	1.51	272.02	1,574.78	-8.32	-12.19	13.68	2.82	2.57	-58.07
1,600.00	1.36	284.58	1,599.77	-8.24	-12.81	14.27	1.40	-0.61	50.21
1,625.00	0.93	274.28	1,624.76	-8.15	-13.30	14.72	1.91	-1.73	-41.18
1,650.00	0.89	282.26	1,649.76	-8.09	-13.69	15.09	0.52	-0.14	31.91
1,675.00	0.70	302.41	1,674.76	-7.97	-14.01	15.38	1.35	-0.78	80.59
1,700.00	0.37	331.12	1,699.76	-7.81	-14.18	15.51	1.64	-1.30	114.85
1,725.00	1.66	279.84	1,724.75	-7.68	-14.57	15.87	5.82	5.15	-205.10
1,750.00	0.93	276.38	1,749.75	-7.60	-15.13	16.40	2.94	-2.93	-13.84
1,775.00	1.08	256.20	1,774.74	-7.63	-15.56	16.83	1.54	0.62	-80.74
1,800.00	1.25	263.61	1,799.74	-7.72	-16.06	17.33	0.91	0.68	29.66
1,825.00	0.66	256.81	1,824.73	-7.78	-16.47	17.75	2.42	-2.38	-27.20
1,850.00	1.18	260.40	1,849.73	-7.86	-16.87	18.15	2.11	2.10	14.36
1,875.00	0.69	258.84	1,874.73	-7.93	-17.27	18.56	1.99	-1.98	-6.25
1,900.00	0.98	275.00	1,899.72	-7.94	-17.63	18.91	1.48	1.16	64.66
1,925.00	0.66	274.88	1,924.72	-7.91	-17.98	19.25	1.27	-1.27	-0.50
1,950.00	0.90	281.90	1,949.72	-7.85	-18.32	19.57	1.04	0.97	28.10
1,975.00	0.94	132.82	1,974.72	-7.95	-18.36	19.63	7.09	0.14	-596.33
2,000.00	0.64	283.64	1,999.72	-8.06	-18.35	19.64	6.12	-1.18	603.28
2,025.00	0.82	298.67	2,024.72	-7.94	-18.64	19.90	1.03	0.70	60.13
2,050.00	0.84	35.78	2,049.71	-7.71	-18.69	19.90	4.95	0.08	388.44
2,075.00	0.91	34.94	2,074.71	-7.40	-18.47	19.62	0.30	0.30	-3.36
2,100.00	2.86	285.71	2,099.70	-7.06	-18.96	20.02	13.12	7.81	-436.94
2,125.00	0.74	315.06	2,124.69	-6.78	-19.67	20.66	9.01	-8.51	117.43
2,150.00	1.02	21.58	2,149.68	-6.46	-19.70	20.62	3.98	1.15	266.08
2,175.00	0.77	9.31	2,174.68	-6.09	-19.59	20.44	1.26	-1.00	-49.09
2,200.00	0.50	14.22	2,199.68	-5.81	-19.54	20.33	1.10	-1.08	19.65
2,225.00	1.57	44.74	2,224.68	-5.46	-19.27	19.99	4.66	4.27	122.07
2,250.00	0.65	33.62	2,249.67	-5.10	-18.95	19.60	3.76	-3.68	-44.48
2,275.00	1.24	40.77	2,274.67	-4.78	-18.70	19.28	2.39	2.34	28.60
2,300.00	0.75	129.99	2,299.66	-4.68	-18.39	18.97	5.74	-1.96	356.89
2,325.00	0.60	134.69	2,324.66	-4.88	-18.18	18.80	0.63	-0.59	18.80
2,350.00	3.29	72.32	2,349.65	-4.75	-17.40	18.01	12.25	10.78	-249.51
2,375.00	0.50	81.06	2,374.63	-4.51	-16.61	17.19	11.20	-11.17	34.96
2,400.00	0.58	256.00	2,399.63	-4.53	-16.62	17.20	4.34	0.33	699.78
2,425.00	1.32	257.32	2,424.63	-4.62	-17.03	17.62	2.93	2.93	5.28
2,450.00	0.57	266.23	2,449.62	-4.69	-17.43	18.03	3.03	-2.98	35.65
2,475.00	1.62	193.25	2,474.62	-5.05	-17.64	18.31	6.22	4.20	-291.95
2,500.00	0.87	270.03	2,499.62	-5.39	-17.91	18.64	6.63	-3.00	307.13
2,525.00	0.71	223.43	2,524.61	-5.50	-18.21	18.96	2.58	-0.64	-186.38
2,550.00	0.75	224.37	2,549.61	-5.73	-18.43	19.22	0.17	0.16	3.75
2,575.00	0.79	209.09	2,574.61	-6.00	-18.63	19.47	0.83	0.14	-61.11
2,600.00	3.44	317.75	2,599.59	-5.60	-19.21	19.96	15.07	10.61	434.62
2,625.00	1.49	211.90	2,624.58	-5.32	-19.89	20.57	16.43	-7.79	-423.41
2,650.00	0.67	202.73	2,649.57	-5.73	-20.12	20.88	3.34	-3.28	-36.66
2,675.00	0.60	215.48	2,674.57	-5.97	-20.25	21.06	0.64	-0.30	51.00
2,700.00	0.53	234.14	2,699.57	-6.14	-20.42	21.26	0.78	-0.28	74.63

Stryker Directional Planning Report



Database:	EDM5000	Local Co-ordinate Reference:	Well CSDU #310 (Re-Entry)
Company:	Southwest Royalties	TVD Reference:	RKB @ 4051.00usft (Norton Rig #2)
Project:	Lea County, New Mexico (NAD83)	MD Reference:	RKB @ 4051.00usft (Norton Rig #2)
Site:	CSDU	North Reference:	True
Well:	CSDU #310 (Re-Entry)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
Design:	Sidetrack Design #3		

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)
2,725.00	1.31	321.51	2,724.57	-5.99	-20.69	21.49	5.57	3.13	349.48
2,750.00	0.64	226.35	2,749.57	-5.86	-20.97	21.74	6.04	-2.71	-380.62
2,775.00	0.75	232.28	2,774.56	-6.05	-21.20	22.00	0.52	0.44	23.70
2,800.00	0.85	254.17	2,799.56	-6.20	-21.51	22.34	1.28	0.42	87.56
2,825.00	0.59	253.67	2,824.56	-6.29	-21.81	22.65	1.06	-1.06	-1.98
2,850.00	0.62	235.40	2,849.56	-6.40	-22.04	22.90	0.78	0.15	-73.08
2,875.00	0.81	203.21	2,874.56	-6.64	-22.23	23.13	1.75	0.75	-128.75
2,900.00	0.93	221.55	2,899.55	-6.96	-22.43	23.40	1.21	0.48	73.36
2,925.00	0.75	184.71	2,924.55	-7.27	-22.58	23.61	2.23	-0.72	-147.38
2,950.00	0.42	230.66	2,949.55	-7.49	-22.66	23.74	2.20	-1.34	183.81
2,975.00	0.61	244.35	2,974.55	-7.61	-22.85	23.95	0.91	0.78	54.75
3,000.00	0.79	246.74	2,999.55	-7.74	-23.13	24.25	0.72	0.71	9.58
3,025.00	0.58	252.98	3,024.54	-7.84	-23.41	24.54	0.90	-0.85	24.96
3,050.00	0.78	229.52	3,049.54	-7.99	-23.66	24.81	1.36	0.82	-93.84
3,075.00	0.29	122.03	3,074.54	-8.13	-23.73	24.92	3.65	-1.94	-429.98
3,100.00	0.21	192.58	3,099.54	-8.21	-23.69	24.89	1.20	-0.34	282.22
3,125.00	0.20	61.44	3,124.54	-8.23	-23.66	24.87	1.50	-0.03	-524.57
3,150.00	0.30	226.18	3,149.54	-8.26	-23.67	24.88	2.01	0.40	658.96
3,175.00	0.36	177.90	3,174.54	-8.38	-23.71	24.95	1.09	0.21	-193.11
3,200.00	0.60	195.42	3,199.54	-8.59	-23.75	25.03	1.14	1.00	70.08
3,225.00	0.45	228.82	3,224.54	-8.78	-23.86	25.18	1.35	-0.60	133.60
3,250.00	0.58	226.29	3,249.54	-8.93	-24.02	25.37	0.51	0.50	-10.14
3,275.00	0.42	218.70	3,274.54	-9.09	-24.17	25.55	0.69	-0.64	-30.37
3,300.00	1.90	158.92	3,299.53	-9.55	-24.08	25.56	6.90	5.91	-239.10
3,325.00	0.44	221.73	3,324.53	-10.01	-23.99	25.57	6.97	-5.85	251.24
3,350.00	0.60	257.12	3,349.53	-10.11	-24.19	25.78	1.41	0.67	141.56
3,375.00	0.46	202.49	3,374.52	-10.23	-24.35	25.97	2.02	-0.56	-218.54
3,400.00	0.43	201.37	3,399.52	-10.41	-24.43	26.08	0.13	-0.12	-4.46
3,425.00	0.62	217.58	3,424.52	-10.61	-24.54	26.23	0.96	0.76	64.85
3,450.00	1.02	175.66	3,449.52	-10.94	-24.61	26.37	2.77	1.57	-167.68
3,475.00	0.32	142.77	3,474.52	-11.21	-24.55	26.37	3.06	-2.77	-131.57
3,500.00	0.35	131.68	3,499.52	-11.32	-24.45	26.29	0.28	0.11	-44.38
3,525.00	0.40	130.81	3,524.52	-11.43	-24.33	26.20	0.21	0.20	-3.47
3,550.00	0.38	179.31	3,549.52	-11.57	-24.26	26.16	1.29	-0.09	193.99
3,575.00	0.85	143.83	3,574.52	-11.80	-24.15	26.10	2.34	1.88	-141.91
3,600.00	0.47	139.86	3,599.51	-12.03	-23.97	25.98	1.53	-1.52	-15.87
3,625.00	0.62	124.93	3,624.51	-12.19	-23.79	25.84	0.81	0.59	-59.72
3,650.00	0.33	130.91	3,649.51	-12.31	-23.63	25.70	1.18	-1.16	23.91
3,675.00	0.37	121.54	3,674.51	-12.40	-23.51	25.60	0.27	0.15	-37.48
3,700.00	0.58	164.75	3,699.51	-12.56	-23.41	25.54	1.61	0.87	172.83
3,725.00	0.70	193.77	3,724.51	-12.83	-23.41	25.60	1.37	0.48	116.10
3,750.00	0.55	194.23	3,749.51	-13.10	-23.48	25.72	0.61	-0.61	1.85
3,775.00	0.40	216.79	3,774.51	-13.29	-23.56	25.84	0.94	-0.59	90.24
3,800.00	1.03	323.01	3,799.51	-13.18	-23.75	26.00	4.82	2.50	424.87
3,825.00	0.62	210.60	3,824.50	-13.11	-23.95	26.19	5.55	-1.64	-449.65
3,850.00	0.24	208.00	3,849.50	-13.28	-24.04	26.31	1.52	-1.52	-10.40
3,875.00	0.63	107.12	3,874.50	-13.36	-23.94	26.23	2.84	1.54	-403.53
3,900.00	0.36	68.57	3,899.50	-13.37	-23.73	26.03	1.64	-1.04	-154.17
3,925.00	1.31	170.36	3,924.50	-13.63	-23.61	25.96	5.70	3.76	407.16
3,950.00	0.47	171.63	3,949.50	-14.01	-23.55	25.98	3.35	-3.35	5.08
3,975.00	0.53	159.38	3,974.50	-14.22	-23.49	25.97	0.50	0.27	-49.02
4,000.00	0.58	209.63	3,999.49	-14.44	-23.51	26.04	1.89	0.16	201.02
4,025.00	1.13	212.56	4,024.49	-14.75	-23.71	26.30	2.21	2.20	11.71
4,050.00	1.48	204.47	4,049.49	-15.25	-23.97	26.66	1.58	1.40	-32.34

Stryker Directional Planning Report



Database:	EDM5000	Local Co-ordinate Reference:	Well CSDU #310 (Re-Entry)
Company:	Southwest Royalties	TVD Reference:	RKB @ 4051.00usft (Norton Rig #2)
Project:	Lea County, New Mexico (NAD83)	MD Reference:	RKB @ 4051.00usft (Norton Rig #2)
Site:	CSDU	North Reference:	True
Well:	CSDU #310 (Re-Entry)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
Design:	Sidetrack Design #3		

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)
4,075.00	0.14	211.37	4,074.48	-15.57	-24.12	26.88	5.36	-5.36	27.59
4,100.00	0.34	160.40	4,099.48	-15.67	-24.11	26.89	1.12	0.83	-203.90
4,125.00	0.24	35.96	4,124.48	-15.69	-24.06	26.84	2.07	-0.42	-497.73
4,150.00	0.47	133.96	4,149.48	-15.72	-23.95	26.74	2.22	0.92	392.00
4,175.00	0.77	118.01	4,174.48	-15.87	-23.73	26.56	1.36	1.18	-63.83
4,200.00	0.55	162.17	4,199.48	-16.06	-23.55	26.42	2.13	-0.88	176.65
4,225.00	0.64	174.95	4,224.48	-16.32	-23.50	26.43	0.65	0.38	51.14
4,250.00	0.42	191.31	4,249.48	-16.55	-23.51	26.48	1.05	-0.87	65.40
4,275.00	0.74	209.96	4,274.47	-16.78	-23.60	26.63	1.48	1.29	74.60
4,300.00	0.53	215.43	4,299.47	-17.01	-23.75	26.82	0.89	-0.86	21.91
4,325.00	0.17	218.12	4,324.47	-17.14	-23.84	26.93	1.45	-1.45	10.74
4,350.00	0.54	193.71	4,349.47	-17.28	-23.89	27.01	1.57	1.48	-97.64
4,375.00	0.49	174.97	4,374.47	-17.50	-23.91	27.08	0.70	-0.20	-74.95
4,400.00	0.68	173.49	4,399.47	-17.75	-23.88	27.11	0.78	0.78	-5.94
4,425.00	0.84	216.22	4,424.47	-18.05	-23.98	27.26	2.30	0.64	170.94
4,450.00	0.65	226.28	4,449.47	-18.29	-24.19	27.52	0.92	-0.76	40.23
4,475.00	0.33	180.97	4,474.47	-18.46	-24.29	27.66	1.92	-1.29	-181.24
4,500.00	0.30	173.94	4,499.46	-18.60	-24.29	27.68	0.20	-0.12	-28.12
4,525.00	0.68	213.48	4,524.46	-18.79	-24.36	27.79	1.94	1.51	158.16
4,550.00	1.44	280.42	4,549.46	-18.86	-24.75	28.19	5.30	3.04	267.76
4,575.00	0.38	210.55	4,574.46	-18.87	-25.10	28.53	5.41	-4.22	-279.47
4,600.00	0.76	210.55	4,599.46	-19.08	-25.23	28.70	1.52	1.52	0.00
4,625.00	0.53	215.61	4,624.45	-19.32	-25.38	28.90	0.94	-0.91	20.24
4,650.00	0.57	222.65	4,649.45	-19.51	-25.53	29.09	0.31	0.15	28.17
4,675.00	0.58	229.64	4,674.45	-19.68	-25.71	29.30	0.28	0.03	27.95
4,700.00	0.84	247.31	4,699.45	-19.83	-25.97	29.59	1.35	1.04	70.69
4,725.00	0.50	279.91	4,724.45	-19.88	-26.25	29.87	1.98	-1.34	130.41
4,750.00	0.36	213.19	4,749.45	-19.93	-26.40	30.02	1.95	-0.57	-266.88
4,775.00	0.48	245.81	4,774.45	-20.04	-26.54	30.18	1.06	0.50	130.46
4,800.00	0.58	229.04	4,799.45	-20.16	-26.73	30.40	0.73	0.38	-67.06
4,825.00	0.90	264.37	4,824.44	-20.26	-27.02	30.70	2.16	1.27	141.33
4,850.00	0.29	273.62	4,849.44	-20.28	-27.28	30.96	2.44	-2.42	36.99
4,875.00	0.59	257.97	4,874.44	-20.30	-27.46	31.15	1.27	1.19	-62.62
4,900.00	0.61	237.15	4,899.44	-20.40	-27.70	31.40	0.87	0.07	-83.26
4,925.00	0.71	225.82	4,924.44	-20.58	-27.92	31.65	0.66	0.42	-45.32
4,950.00	0.81	231.78	4,949.44	-20.80	-28.18	31.95	0.52	0.41	23.82
4,975.00	0.58	267.26	4,974.43	-20.91	-28.44	32.23	1.92	-0.93	141.92
5,000.00	0.81	270.33	4,999.43	-20.92	-28.74	32.53	0.91	0.90	12.30
5,025.00	0.42	255.12	5,024.43	-20.94	-29.01	32.79	1.67	-1.55	-60.84
5,050.00	4.12	304.10	5,049.41	-20.46	-29.84	33.50	15.45	14.83	195.90
5,075.00	1.17	306.34	5,074.38	-19.80	-30.79	34.29	11.81	-11.80	8.99
5,100.00	0.59	308.23	5,099.38	-19.57	-31.10	34.54	2.35	-2.35	7.52
5,125.00	0.58	260.85	5,124.37	-19.52	-31.32	34.75	1.88	-0.01	-189.49
5,150.00	0.42	273.82	5,149.37	-19.53	-31.54	34.96	0.80	-0.66	51.88
5,175.00	1.11	271.53	5,174.37	-19.52	-31.87	35.29	2.77	2.77	-9.16
5,200.00	1.05	291.37	5,199.37	-19.43	-32.33	35.71	1.51	-0.24	79.34
5,225.00	0.92	280.03	5,224.36	-19.31	-32.74	36.09	0.93	-0.52	-45.36
5,250.00	0.51	275.41	5,249.36	-19.26	-33.05	36.38	1.66	-1.65	-18.47
5,275.00	0.57	302.25	5,274.36	-19.19	-33.26	36.58	1.02	0.24	107.34
5,300.00	0.76	37.54	5,299.36	-18.99	-33.27	36.54	3.94	0.76	381.17
5,325.00	0.50	251.94	5,324.36	-18.89	-33.27	36.52	4.81	-1.02	-582.41
5,350.00	0.79	283.44	5,349.36	-18.89	-33.54	36.78	1.79	1.16	126.03
5,375.00	0.54	264.75	5,374.36	-18.86	-33.83	37.06	1.33	-1.02	-74.78
5,400.00	0.63	278.69	5,399.35	-18.85	-34.08	37.30	0.68	0.37	55.79

Stryker Directional Planning Report



Database:	EDM5000	Local Co-ordinate Reference:	Well CSDU #310 (Re-Entry)
Company:	Southwest Royalties	TVD Reference:	RKB @ 4051.00usft (Norton Rig #2)
Project:	Lea County, New Mexico (NAD83)	MD Reference:	RKB @ 4051.00usft (Norton Rig #2)
Site:	CSDU	North Reference:	True
Well:	CSDU #310 (Re-Entry)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
Design:	Sidetrack Design #3		

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)	
5,425.00	1.35	276.23	5,424.35	-18.79	-34.51	37.71	2.89	2.88	-9.85	
5,450.00	1.84	282.22	5,449.34	-18.68	-35.19	38.35	2.06	1.95	23.94	
5,475.00	0.56	292.31	5,474.33	-18.55	-35.70	38.82	5.15	-5.10	40.38	
5,500.00	0.54	306.34	5,499.33	-18.43	-35.91	39.00	0.55	-0.09	56.10	
5,525.00	0.34	280.19	5,524.33	-18.35	-36.07	39.14	1.11	-0.80	-104.58	
5,550.00	0.61	276.17	5,549.33	-18.32	-36.28	39.34	1.06	1.06	-16.10	
5,575.00	0.44	266.32	5,574.33	-18.31	-36.50	39.56	0.77	-0.68	-39.37	
5,600.00	0.80	280.33	5,599.33	-18.29	-36.77	39.81	1.56	1.45	56.02	
5,625.00	0.57	275.88	5,624.33	-18.24	-37.07	40.09	0.94	-0.92	-17.80	
5,650.00	0.49	276.84	5,649.33	-18.22	-37.29	40.31	0.33	-0.32	3.85	
5,675.00	0.51	287.28	5,674.33	-18.17	-37.51	40.51	0.37	0.09	41.74	
5,700.00	0.52	278.16	5,699.32	-18.12	-37.73	40.71	0.33	0.06	-36.46	
5,725.00	0.45	287.35	5,724.32	-18.08	-37.93	40.90	0.44	-0.31	36.78	
5,750.00	0.56	268.80	5,749.32	-18.05	-38.15	41.11	0.79	0.45	-74.20	
5,775.00	0.32	310.40	5,774.32	-18.01	-38.32	41.27	1.54	-0.97	166.36	
5,800.00	0.50	267.31	5,799.32	-17.97	-38.48	41.42	1.38	0.73	-172.32	
5,825.00	0.49	256.87	5,824.32	-18.00	-38.69	41.63	0.36	-0.05	-41.77	
5,850.00	0.50	255.48	5,849.32	-18.05	-38.90	41.85	0.07	0.05	-5.56	
5,875.00	0.40	248.29	5,874.32	-18.11	-39.09	42.04	0.44	-0.38	-28.79	
5,900.00	0.52	268.48	5,899.32	-18.14	-39.28	42.24	0.81	0.48	80.78	
5,925.00	0.74	280.08	5,924.32	-18.12	-39.56	42.50	1.00	0.86	46.41	
5,950.00	0.62	307.09	5,949.31	-18.01	-39.83	42.74	1.35	-0.47	108.02	
5,975.00	0.17	324.35	5,974.31	-17.90	-39.96	42.84	1.84	-1.80	69.05	
6,000.00	0.15	95.61	5,999.31	-17.87	-39.95	42.83	1.17	-0.11	525.03	
6,025.00	0.30	245.54	6,024.31	-17.90	-39.97	42.86	1.73	0.61	599.72	
6,050.00	0.44	282.81	6,049.31	-17.90	-40.13	43.01	1.09	0.58	149.10	
6,075.00	0.24	287.52	6,074.31	-17.87	-40.27	43.15	0.81	-0.80	18.82	
6,100.00	0.30	276.55	6,099.31	-17.84	-40.39	43.25	0.32	0.24	-43.86	
6,125.00	0.64	297.96	6,124.31	-17.77	-40.58	43.42	1.50	1.35	85.64	
6,150.00	0.48	338.34	6,149.31	-17.61	-40.74	43.55	1.66	-0.63	161.50	
6,175.00	0.11	270.31	6,174.31	-17.51	-40.80	43.59	1.81	-1.50	-272.09	
6,200.00	0.73	22.59	6,199.31	-17.36	-40.76	43.52	3.12	2.50	449.09	
6,225.00	0.37	296.84	6,224.31	-17.18	-40.77	43.49	3.19	-1.44	-342.97	
6,250.00	0.55	294.30	6,249.31	-17.09	-40.96	43.65	0.70	0.69	-10.16	
6,275.00	0.32	226.79	6,274.31	-17.09	-41.11	43.80	2.07	-0.91	-270.07	
6,300.00	0.52	337.17	6,299.31	-17.03	-41.21	43.88	2.78	0.79	441.52	
6,325.00	0.26	345.17	6,324.31	-16.88	-41.27	43.91	1.06	-1.04	32.02	
6,350.00	0.38	288.63	6,349.31	-16.80	-41.36	43.98	1.28	0.50	-226.18	
6,375.00	0.52	308.98	6,374.31	-16.70	-41.53	44.12	0.82	0.54	81.40	
6,400.00	0.63	335.38	6,399.30	-16.50	-41.67	44.22	1.13	0.44	105.62	
6,425.00	0.38	277.92	6,424.30	-16.37	-41.81	44.33	2.12	-0.97	-229.85	
6,450.00	0.37	236.65	6,449.30	-16.40	-41.96	44.48	1.06	-0.08	-165.09	
6,475.00	0.62	298.89	6,474.30	-16.38	-42.14	44.66	2.20	1.00	248.96	
6,500.00	0.50	303.20	6,499.30	-16.25	-42.35	44.84	0.48	-0.45	17.25	
6,525.00	0.52	296.12	6,524.30	-16.14	-42.55	45.00	0.27	0.08	-28.34	
6,550.00	0.46	311.73	6,549.30	-16.03	-42.72	45.15	0.59	-0.26	62.47	
6,575.00	1.55	332.36	6,574.29	-15.66	-42.95	45.30	4.54	4.37	82.50	
6,600.00	0.55	299.92	6,599.29	-15.30	-43.21	45.48	4.51	-4.02	-129.76	
6,625.00	0.40	295.81	6,624.29	-15.21	-43.40	45.63	0.60	-0.58	-16.41	
6,650.00	0.79	320.89	6,649.29	-15.03	-43.58	45.78	1.83	1.55	100.30	
6,675.00	0.57	259.34	6,674.29	-14.92	-43.81	45.98	2.88	-0.87	-246.21	
6,700.00	0.76	302.73	6,699.29	-14.86	-44.08	46.22	2.09	0.76	173.58	
6,725.00	0.43	329.60	6,724.28	-14.69	-44.26	46.37	1.70	-1.32	107.46	
6,750.00	0.89	308.23	6,749.28	-14.49	-44.46	46.52	2.04	1.82	-85.45	

Stryker Directional Planning Report



Database:	EDM5000	Local Co-ordinate Reference:	Well CSDU #310 (Re-Entry)
Company:	Southwest Royalties	TVD Reference:	RKB @ 4051.00usft (Norton Rig #2)
Project:	Lea County, New Mexico (NAD83)	MD Reference:	RKB @ 4051.00usft (Norton Rig #2)
Site:	CSDU	North Reference:	True
Well:	CSDU #310 (Re-Entry)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
Design:	Sidetrack Design #3		

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)
6,775.00	1.16	275.69	6,774.28	-14.34	-44.86	46.89	2.52	1.09	-130.16
6,800.00	0.46	274.04	6,799.28	-14.31	-45.22	47.22	2.80	-2.80	-6.60
6,825.00	0.26	265.08	6,824.28	-14.31	-45.37	47.37	0.83	-0.80	-35.84
6,850.00	0.44	263.78	6,849.27	-14.32	-45.52	47.53	0.74	0.74	-5.20
6,875.00	0.27	281.46	6,874.27	-14.32	-45.68	47.68	0.82	-0.70	70.69
6,900.00	0.70	288.52	6,899.27	-14.26	-45.88	47.86	1.73	1.72	28.26
6,925.00	0.84	289.98	6,924.27	-14.15	-46.20	48.15	0.57	0.57	5.83
6,950.00	0.75	294.90	6,949.27	-14.02	-46.52	48.43	0.44	-0.35	19.69
6,975.00	0.48	347.72	6,974.27	-13.85	-46.69	48.56	2.40	-1.09	211.26
7,000.00	0.28	235.42	6,999.27	-13.78	-46.76	48.62	2.57	-0.80	-449.20
7,025.00	0.95	285.30	7,024.27	-13.76	-47.01	48.86	3.21	2.69	199.54
7,050.00	0.69	305.37	7,049.26	-13.62	-47.33	49.15	1.55	-1.06	80.27
7,075.00	0.67	312.58	7,074.26	-13.43	-47.56	49.33	0.35	-0.09	28.82
7,100.00	0.95	244.65	7,099.26	-13.42	-47.86	49.62	3.73	1.14	-271.70
7,125.00	1.49	64.87	7,124.26	-13.37	-47.75	49.50	9.76	2.16	-719.12
7,150.00	0.88	282.41	7,149.25	-13.19	-47.64	49.36	9.00	-2.46	-569.84
7,175.00	0.75	310.14	7,174.25	-13.05	-47.96	49.63	1.63	-0.49	110.92
7,200.00	0.77	277.03	7,199.25	-12.92	-48.25	49.89	1.74	0.06	-132.45
7,225.00	0.49	195.96	7,224.25	-13.00	-48.44	50.10	3.38	-1.14	-324.29
7,250.00	0.56	264.57	7,249.25	-13.12	-48.60	50.27	2.38	0.31	274.44
7,275.00	0.58	282.38	7,274.25	-13.10	-48.84	50.51	0.72	0.08	71.26
7,300.00	0.96	320.25	7,299.24	-12.91	-49.10	50.72	2.45	1.49	151.48
7,325.00	0.50	286.14	7,324.24	-12.72	-49.34	50.91	2.45	-1.83	-136.42
7,350.00	0.62	22.58	7,349.24	-12.57	-49.39	50.93	3.34	0.46	385.76
7,375.00	0.97	243.82	7,374.24	-12.54	-49.53	51.06	5.94	1.40	-555.06
7,400.00	1.05	303.01	7,399.24	-12.50	-49.91	51.43	3.99	0.34	236.76
7,425.00	1.06	279.81	7,424.23	-12.34	-50.33	51.80	1.69	0.03	-92.80
7,450.00	0.54	281.43	7,449.23	-12.28	-50.67	52.12	2.07	-2.07	6.47
7,475.00	1.29	287.93	7,474.23	-12.17	-51.06	52.48	3.04	3.02	26.01
7,500.00	0.53	272.13	7,499.22	-12.08	-51.44	52.83	3.19	-3.06	-63.19
7,525.00	1.07	287.65	7,524.22	-12.00	-51.78	53.15	2.32	2.17	62.08
7,550.00	0.72	283.22	7,549.22	-11.89	-52.15	53.49	1.44	-1.41	-17.72
7,575.00	0.75	291.60	7,574.22	-11.80	-52.46	53.77	0.45	0.12	33.51
7,600.00	0.88	284.08	7,599.21	-11.69	-52.80	54.08	0.66	0.50	-30.08
7,625.00	1.14	291.75	7,624.21	-11.55	-53.21	54.45	1.17	1.04	30.70
7,650.00	1.66	303.42	7,649.20	-11.26	-53.74	54.91	2.39	2.11	46.66
7,675.00	0.58	320.51	7,674.20	-10.96	-54.13	55.22	4.50	-4.34	68.35
7,700.00	0.73	286.38	7,699.20	-10.82	-54.36	55.42	1.63	0.60	-136.51
7,725.00	0.50	276.70	7,724.19	-10.77	-54.62	55.66	0.98	-0.89	-38.73
7,750.00	0.93	287.26	7,749.19	-10.69	-54.93	55.94	1.79	1.72	42.26
7,775.00	1.05	311.61	7,774.19	-10.48	-55.29	56.26	1.73	0.46	97.41
7,800.00	0.78	274.85	7,799.19	-10.31	-55.63	56.55	2.52	-1.07	-147.04
7,825.00	1.62	295.19	7,824.18	-10.15	-56.12	57.00	3.71	3.35	81.36
7,850.00	0.82	290.04	7,849.17	-9.94	-56.61	57.43	3.24	-3.21	-20.60
7,875.00	0.92	281.42	7,874.17	-9.84	-56.97	57.76	0.68	0.43	-34.48
7,900.00	1.21	314.50	7,899.17	-9.61	-57.36	58.09	2.65	1.13	132.30
7,925.00	1.72	272.24	7,924.16	-9.41	-57.92	58.60	4.62	2.04	-169.03
7,950.00	1.09	288.09	7,949.15	-9.33	-58.52	59.17	2.91	-2.49	63.40
7,975.00	1.28	280.07	7,974.15	-9.20	-59.02	59.63	0.99	0.74	-32.09
8,000.00	1.73	285.23	7,999.14	-9.05	-59.66	60.22	1.88	1.80	20.66
8,025.00	1.02	291.59	8,024.13	-8.87	-60.23	60.74	2.90	-2.84	25.45
8,050.00	1.20	309.39	8,049.13	-8.62	-60.64	61.09	1.56	0.73	71.20
8,075.00	0.98	291.64	8,074.12	-8.38	-61.04	61.43	1.61	-0.88	-71.01
8,100.00	0.84	276.97	8,099.12	-8.28	-61.42	61.78	1.10	-0.59	-58.69

Stryker Directional Planning Report



Database: EDM5000
Company: Southwest Royalties
Project: Lea County, New Mexico (NAD83)
Site: CSDU
Well: CSDU #310 (Re-Entry)
Wellbore: Wellbore #2
Design: Sidetrack Design #3

Local Co-ordinate Reference: Well CSDU #310 (Re-Entry)
TVD Reference: RKB @ 4051.00usft (Norton Rig #2)
MD Reference: RKB @ 4051.00usft (Norton Rig #2)
North Reference: True
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)
8,125.00	1.26	293.94	8,124.11	-8.14	-61.86	62.18	2.10	1.71	67.90
8,150.00	1.17	305.08	8,149.11	-7.89	-62.32	62.57	1.02	-0.38	44.58
8,175.00	1.35	284.35	8,174.10	-7.67	-62.81	63.01	1.94	0.70	-82.95
8,200.00	0.84	296.48	8,199.10	-7.51	-63.26	63.41	2.21	-2.02	48.54
8,225.00	1.47	293.76	8,224.09	-7.30	-63.72	63.82	2.53	2.52	-10.87
8,250.00	1.36	291.91	8,249.09	-7.06	-64.29	64.32	0.48	-0.44	-7.44
8,275.00	1.41	286.99	8,274.08	-6.86	-64.85	64.83	0.51	0.18	-19.65
8,300.00	1.26	270.32	8,299.07	-6.77	-65.42	65.37	1.65	-0.57	-66.70
8,325.00	1.21	248.68	8,324.07	-6.86	-65.95	65.90	1.87	-0.23	-86.56
8,350.00	1.22	277.96	8,349.06	-6.92	-66.45	66.41	2.45	0.05	117.14
8,375.00	1.36	259.91	8,374.05	-6.94	-67.01	66.96	1.71	0.56	-72.20
8,400.00	1.44	270.50	8,399.05	-6.99	-67.61	67.56	1.08	0.33	42.35
8,425.00	1.40	265.03	8,424.04	-7.01	-68.23	68.17	0.57	-0.16	-21.87
8,450.00	0.79	268.27	8,449.03	-7.04	-68.71	68.64	2.45	-2.44	12.94
8,475.00	1.74	281.60	8,474.03	-6.97	-69.25	69.16	3.96	3.81	53.33
8,500.00	2.02	267.40	8,499.02	-6.91	-70.07	69.94	2.15	1.10	-56.79
8,525.00	1.80	270.07	8,524.00	-6.93	-70.90	70.76	0.93	-0.86	10.67
8,550.00	1.59	271.00	8,548.99	-6.93	-71.64	71.48	0.87	-0.86	3.72
8,575.00	1.38	286.97	8,573.98	-6.83	-72.27	72.08	1.85	-0.85	63.89
8,600.00	1.86	266.06	8,598.97	-6.77	-72.96	72.74	3.03	1.95	-83.65
8,625.00	1.66	283.94	8,623.96	-6.71	-73.72	73.47	2.33	-0.82	71.54
8,650.00	1.68	292.20	8,648.95	-6.49	-74.41	74.09	0.97	0.11	33.01
8,675.00	1.61	295.65	8,673.94	-6.20	-75.07	74.67	0.49	-0.28	13.81
8,700.00	2.77	277.44	8,698.92	-5.97	-75.98	75.52	5.34	4.62	-72.84
8,725.00	2.21	300.91	8,723.90	-5.64	-77.00	76.44	4.61	-2.24	93.90
8,750.00	1.63	305.40	8,748.88	-5.19	-77.70	77.03	2.39	-2.32	17.95
8,775.00	1.94	307.37	8,773.87	-4.72	-78.33	77.55	1.27	1.25	7.90
8,800.00	1.29	296.13	8,798.86	-4.34	-78.92	78.04	2.91	-2.63	-44.96
8,825.00	2.78	304.31	8,823.85	-3.88	-79.67	78.68	6.06	5.97	32.71
8,850.00	1.79	304.10	8,848.83	-3.32	-80.49	79.36	3.94	-3.94	-0.86
8,875.00	1.55	303.89	8,873.81	-2.91	-81.10	79.87	0.95	-0.95	-0.84
8,900.00	1.51	299.95	8,898.81	-2.56	-81.66	80.35	0.45	-0.17	-15.73
8,925.00	1.63	298.20	8,923.80	-2.22	-82.26	80.86	0.51	0.48	-7.02
8,950.00	1.75	300.72	8,948.79	-1.86	-82.90	81.41	0.54	0.46	10.10
8,975.00	1.55	307.41	8,973.78	-1.46	-83.50	81.91	1.10	-0.78	26.73
9,000.00	1.40	305.33	8,998.77	-1.08	-84.02	82.33	0.64	-0.61	-8.31
9,025.00	1.19	318.92	9,023.76	-0.71	-84.44	82.66	1.48	-0.83	54.36
9,050.00	4.72	303.98	9,048.72	0.06	-85.46	83.50	14.32	14.11	-59.75
9,075.00	1.60	304.35	9,073.68	0.83	-86.60	84.45	12.46	-12.46	1.48
9,100.00	2.25	314.97	9,098.67	1.38	-87.24	84.96	2.95	2.60	42.45
9,125.00	1.65	308.48	9,123.65	1.95	-87.86	85.45	2.55	-2.40	-25.94
9,150.00	1.08	323.35	9,148.65	2.36	-88.29	85.78	2.67	-2.28	59.46
9,175.00	1.74	302.09	9,173.64	2.75	-88.75	86.14	3.32	2.63	-85.02
9,200.00	1.71	314.78	9,198.63	3.22	-89.33	86.62	1.53	-0.11	50.77
9,225.00	1.65	314.79	9,223.62	3.73	-89.86	87.02	0.23	-0.23	0.03
9,250.00	1.64	311.68	9,248.61	4.23	-90.38	87.42	0.36	-0.06	-12.46
9,275.00	1.26	308.00	9,273.60	4.63	-90.86	87.81	1.57	-1.52	-14.70
9,300.00	1.32	302.37	9,298.59	4.95	-91.32	88.19	0.57	0.25	-22.51
9,325.00	1.48	317.73	9,323.59	5.35	-91.78	88.56	1.62	0.63	61.43
9,350.00	1.51	310.69	9,348.58	5.80	-92.25	88.92	0.74	0.12	-28.18
9,375.00	1.52	310.25	9,373.57	6.23	-92.75	89.32	0.07	0.05	-1.76
9,400.00	1.98	305.56	9,398.56	6.69	-93.35	89.81	1.92	1.84	-18.76
9,425.00	0.79	323.64	9,423.55	7.08	-93.81	90.17	5.01	-4.75	72.32
9,450.00	1.79	311.87	9,448.54	7.48	-94.20	90.47	4.11	3.99	-47.08

Stryker Directional Planning Report



Database:	EDM5000	Local Co-ordinate Reference:	Well CSDU #310 (Re-Entry)
Company:	Southwest Royalties	TVD Reference:	RKB @ 4051.00usft (Norton Rig #2)
Project:	Lea County, New Mexico (NAD83)	MD Reference:	RKB @ 4051.00usft (Norton Rig #2)
Site:	CSDU	North Reference:	True
Well:	CSDU #310 (Re-Entry)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
Design:	Sidetrack Design #3		

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)
9,475.00	1.96	303.61	9,473.53	7.98	-94.84	90.99	1.27	0.68	-33.01
9,500.00	1.56	307.90	9,498.52	8.42	-95.47	91.51	1.69	-1.60	17.16
9,525.00	0.90	318.12	9,523.51	8.78	-95.86	91.82	2.77	-2.64	40.88
9,550.00	2.62	298.95	9,548.50	9.20	-96.49	92.35	7.18	6.88	-76.68
9,575.00	1.82	308.47	9,573.48	9.72	-97.30	93.03	3.50	-3.18	38.06
9,600.00	1.82	309.01	9,598.47	10.22	-97.92	93.53	0.07	0.00	2.17
9,625.00	1.76	303.02	9,623.46	10.68	-98.56	94.05	0.78	-0.23	-23.94
9,650.00	1.61	315.10	9,648.44	11.14	-99.13	94.51	1.54	-0.61	48.30
9,675.00	1.57	307.45	9,673.43	11.59	-99.65	94.92	0.86	-0.16	-30.61
9,700.00	1.82	306.16	9,698.42	12.04	-100.24	95.40	1.01	1.00	-5.14
9,725.00	1.75	304.64	9,723.41	12.49	-100.87	95.93	0.32	-0.26	-6.10
9,750.00	1.76	297.77	9,748.40	12.88	-101.53	96.48	0.84	0.01	-27.46
9,775.00	1.80	305.96	9,773.39	13.29	-102.18	97.04	1.03	0.17	32.76
9,800.00	1.45	304.69	9,798.38	13.70	-102.76	97.51	1.41	-1.40	-5.08
9,825.00	1.43	300.04	9,823.37	14.04	-103.29	97.96	0.47	-0.08	-18.62
9,850.00	2.08	16.09	9,848.36	14.63	-103.43	97.98	8.88	2.60	304.22
9,875.00	1.33	287.84	9,873.35	15.16	-103.59	98.01	9.74	-2.98	-353.03
9,900.00	1.29	302.93	9,898.35	15.40	-104.10	98.46	1.39	-0.19	60.35
9,925.00	1.57	295.05	9,923.34	15.69	-104.64	98.93	1.38	1.14	-31.50
9,950.00	1.54	296.37	9,948.33	15.99	-105.26	99.47	0.18	-0.11	5.29
9,975.00	1.64	306.91	9,973.32	16.35	-105.84	99.97	1.23	0.38	42.14
10,000.00	1.39	284.54	9,998.31	16.64	-106.42	100.47	2.54	-0.99	-89.48
10,025.00	1.62	299.57	10,023.30	16.90	-107.03	101.01	1.82	0.92	60.12
10,050.00	1.40	298.39	10,048.29	17.21	-107.60	101.50	0.92	-0.91	-4.70
10,075.00	1.28	299.59	10,073.29	17.50	-108.11	101.94	0.49	-0.47	4.80
10,100.00	2.17	299.50	10,098.28	17.87	-108.77	102.50	3.58	3.58	-0.36
10,125.00	1.44	297.43	10,123.26	18.25	-109.46	103.10	2.93	-2.92	-8.26
10,150.00	1.60	298.01	10,148.25	18.56	-110.05	103.60	0.62	0.62	2.29
10,175.00	1.39	297.73	10,173.25	18.86	-110.62	104.10	0.84	-0.84	-1.10
10,200.00	1.25	297.06	10,198.24	19.12	-111.13	104.54	0.56	-0.56	-2.70
10,225.00	1.39	280.14	10,223.23	19.30	-111.67	105.03	1.65	0.56	-67.67
10,250.00	1.05	281.69	10,248.23	19.40	-112.19	105.52	1.37	-1.36	6.20
10,275.00	1.91	288.61	10,273.22	19.58	-112.81	106.09	3.53	3.47	27.67
10,300.00	1.23	291.44	10,298.21	19.81	-113.46	106.67	2.74	-2.72	11.34
10,325.00	1.50	285.36	10,323.20	20.00	-114.02	107.19	1.21	1.07	-24.31
10,350.00	1.33	282.23	10,348.19	20.14	-114.62	107.74	0.77	-0.70	-12.54
10,375.00	1.39	306.81	10,373.19	20.39	-115.15	108.20	2.32	0.25	98.34
10,400.00	1.58	304.43	10,398.18	20.76	-115.67	108.64	0.81	0.78	-9.54
10,425.00	1.81	306.15	10,423.17	21.19	-116.28	109.13	0.92	0.90	6.88
10,450.00	1.86	299.00	10,448.16	21.62	-116.95	109.70	0.94	0.23	-28.60
10,475.00	1.91	294.58	10,473.14	21.99	-117.69	110.34	0.62	0.20	-17.68
10,500.00	1.54	296.83	10,498.13	22.32	-118.37	110.94	1.52	-1.49	8.98
10,525.00	2.02	304.50	10,523.12	22.72	-119.03	111.50	2.14	1.92	30.70
10,550.00	1.93	302.09	10,548.10	23.19	-119.75	112.10	0.50	-0.37	-9.64
10,575.00	0.83	319.99	10,573.10	23.55	-120.22	112.49	4.68	-4.40	71.59
10,600.00	1.88	299.73	10,598.09	23.89	-120.69	112.88	4.54	4.19	-81.02
Tie-in to TWG Survey - 10600.00' MD									
10,620.00	1.69	303.75	10,618.08	24.22	-121.22	113.32	1.12	-0.93	20.09
SDTRK, Begin 5.00°/100' Build & Turn									
10,700.00	2.31	118.90	10,698.06	24.10	-120.79	112.93	5.00	0.78	218.93
10,753.75	5.00	120.00	10,751.69	22.40	-117.81	110.38	5.00	5.00	2.05
Hold 5.00° Inc and 120.00° Azi									
10,800.00	5.00	120.00	10,797.77	20.38	-114.32	107.39	0.00	0.00	0.00

Stryker Directional Planning Report



Database:	EDM5000	Local Co-ordinate Reference:	Well CSDU #310 (Re-Entry)
Company:	Southwest Royalties	TVD Reference:	RKB @ 4051.00usft (Norton Rig #2)
Project:	Lea County, New Mexico (NAD83)	MD Reference:	RKB @ 4051.00usft (Norton Rig #2)
Site:	CSDU	North Reference:	True
Well:	CSDU #310 (Re-Entry)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
Design:	Sidetrack Design #3		

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)
10,900.00	5.00	120.00	10,897.39	16.03	-106.77	100.94	0.00	0.00	0.00
11,000.00	5.00	120.00	10,997.01	11.67	-99.22	94.49	0.00	0.00	0.00
11,100.00	5.00	120.00	11,096.63	7.31	-91.68	88.04	0.00	0.00	0.00
11,200.00	5.00	120.00	11,196.25	2.95	-84.13	81.59	0.00	0.00	0.00
11,300.00	5.00	120.00	11,295.87	-1.40	-76.58	75.13	0.00	0.00	0.00
11,400.00	5.00	120.00	11,395.49	-5.76	-69.03	68.68	0.00	0.00	0.00
11,428.75	5.00	120.00	11,424.12	-7.01	-66.86	66.83	0.00	0.00	0.00
Begin 2.00°/100' Drop									
11,500.00	3.57	120.00	11,495.18	-9.68	-62.25	62.89	2.00	-2.00	0.00
11,600.00	1.57	120.00	11,595.07	-11.92	-58.36	59.56	2.00	-2.00	0.00
11,678.75	0.00	0.00	11,673.81	-12.47	-57.42	58.76	2.00	-2.00	0.00
Begin Vertical Hold									
11,700.00	0.00	0.00	11,695.06	-12.47	-57.42	58.76	0.00	0.00	0.00
11,800.00	0.00	0.00	11,795.06	-12.47	-57.42	58.76	0.00	0.00	0.00
11,900.00	0.00	0.00	11,895.06	-12.47	-57.42	58.76	0.00	0.00	0.00
12,000.00	0.00	0.00	11,995.06	-12.47	-57.42	58.76	0.00	0.00	0.00
12,100.00	0.00	0.00	12,095.06	-12.47	-57.42	58.76	0.00	0.00	0.00
12,112.94	0.00	0.00	12,108.00	-12.47	-57.42	58.76	0.00	0.00	0.00
Top of Devonian - 12112.94' MD									
12,200.00	0.00	0.00	12,195.06	-12.47	-57.42	58.76	0.00	0.00	0.00
12,300.00	0.00	0.00	12,295.06	-12.47	-57.42	58.76	0.00	0.00	0.00
12,350.00	0.00	0.00	12,345.06	-12.47	-57.42	58.76	0.00	0.00	0.00
PBHL									

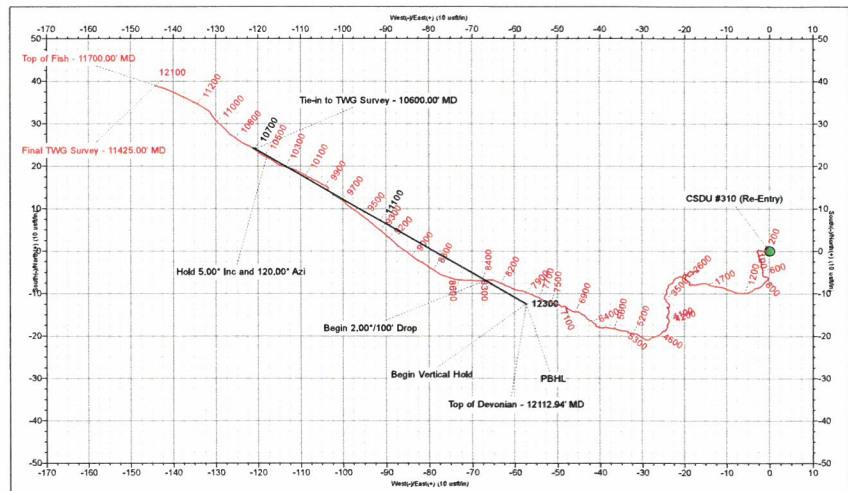
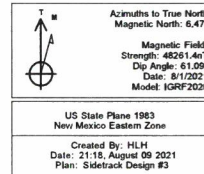
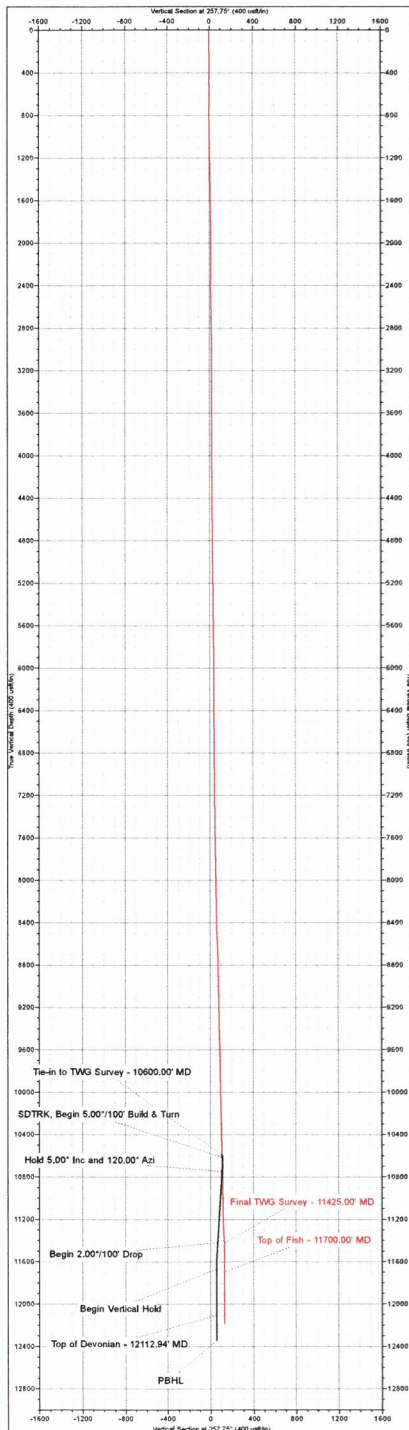
Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,600.00	10,598.09	23.89	-120.69	Tie-in to TWG Survey - 10600.00' MD
10,620.00	10,618.08	24.22	-121.22	SDTRK, Begin 5.00°/100' Build & Turn
10,753.75	10,751.69	22.40	-117.81	Hold 5.00° Inc and 120.00° Azi
11,428.75	11,424.12	-7.01	-66.86	Begin 2.00°/100' Drop
11,678.75	11,673.81	-12.47	-57.42	Begin Vertical Hold
12,112.94	12,108.00	-12.47	-57.42	Top of Devonian - 12112.94' MD
12,350.00	12,345.06	-12.47	-57.42	PBHL

Company: Southwest Royalties
 Site: CSDU
 Well: CSDU #310 (Re-Entry)
 Project: Lea County, New Mexico (NAD83)
 Rig: Norton Rig #2
 To convert a Magnetic Direction to a Grid Direction, Add 5.86°



ANNOTATIONS									
MD	Inc	Azi	TVD	-N/S	+E/W	Vsect	Departure	Annotation	
10600.00	1.88	299.73	10598.09	23.89	-120.89	112.88	0.00	Tie-in to TWG Survey - 10600.00' MD	
10620.00	1.69	303.75	10618.08	24.22	-121.22	113.32	0.62	SDTRK, Begin 5.00°/100' Build & Turn	
10753.75	5.00	120.00	10751.69	22.40	-117.81	110.38	6.84	Hold 5.00° Inc and 120.00° Azi	
11428.75	5.00	120.00	11424.12	-7.01	-66.86	66.83	65.67	Begin 2.00°/100' Drop	
11678.75	0.00	0.00	11673.81	-12.47	-57.42	58.76	76.58	Begin Vertical Hold	
12112.94	0.00	0.00	12108.00	-12.47	-57.42	58.76	76.58	Top of Devonian - 12112.94' MD	
12350.00	0.00	0.00	12345.06	-12.47	-57.42	58.76	76.58	PBHL	



District I

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Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

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

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 40875

CONDITIONS

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 40875
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pgoetze	Operator shall complete a cement bond log for the new 7-inch production casing from the shoe to approximately 100 feet above the whipstock.	8/10/2021