

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

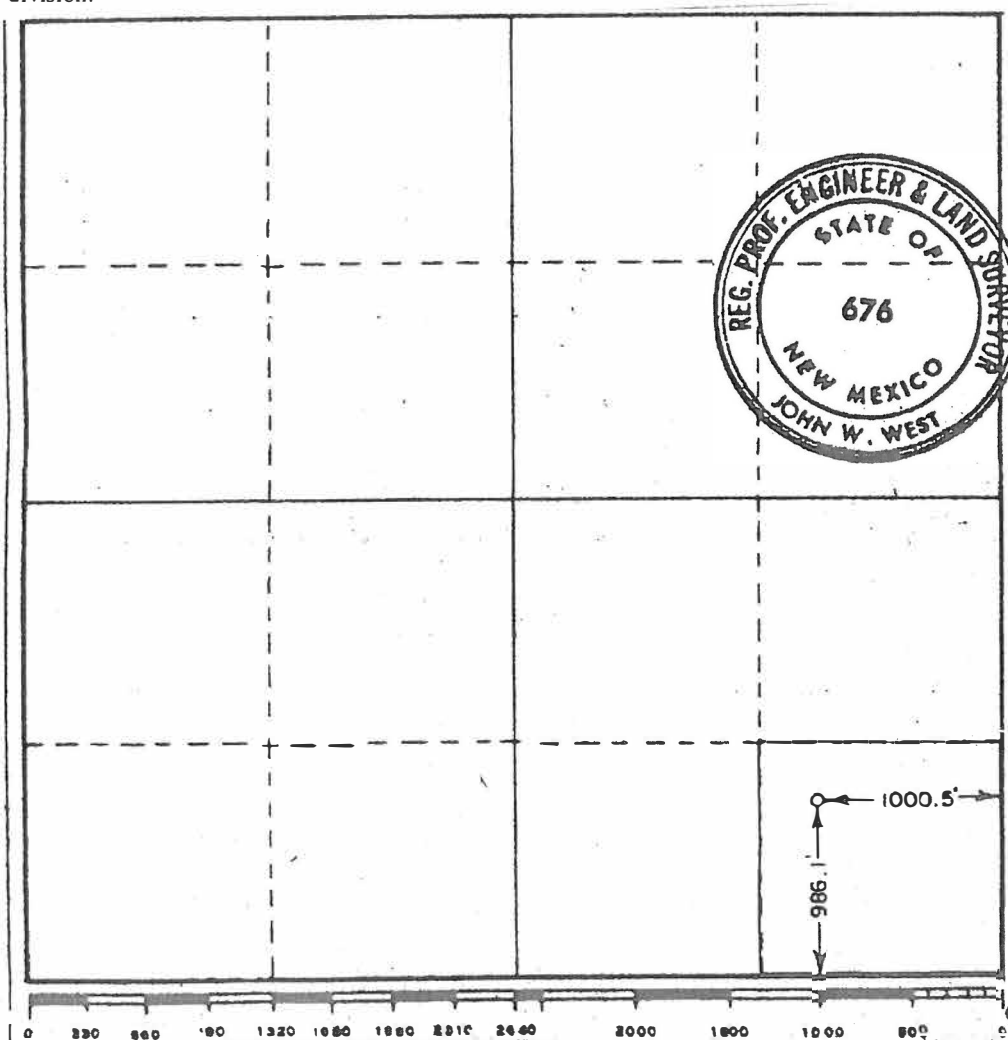
State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-24285		² Pool Code 13490		³ Pool Name CROSSROADS; SILURO DEVONIAN					
⁴ Property Code 326322		⁵ Property Name CROSSROAD SILURO DEVONIAN UNIT						⁶ Well Number #310	
⁷ OGRID No. 21355		⁸ Operator Name SOUTHWEST ROYALTIES, INC.						⁹ Elevation 4034'	
¹⁰ Surface Location									
UL or lot no. P	Section 27	Township 9S	Range 36E	Lot Idn	Feet from the 986	North/South line SOUTH	Feet from the 1001	East/West line EAST	County LEA
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. P	Section 27	Township 9S	Range 36E	Lot Idn	Feet from the 974	North/South line SOUTH	Feet from the 1059	East/West line EAST	County LEA
¹² Dedicated Acres 40		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No. WFX-1042			

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.



CERTIFICATION

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

Charles Gray
Name

Charles Gray

Position
Proration Clerk

Company
Sun Oil Co. of Delaware

Date
November 10, 1972

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 knowledge and belief.

Date Surveyed
OCTOBER 28, 1972

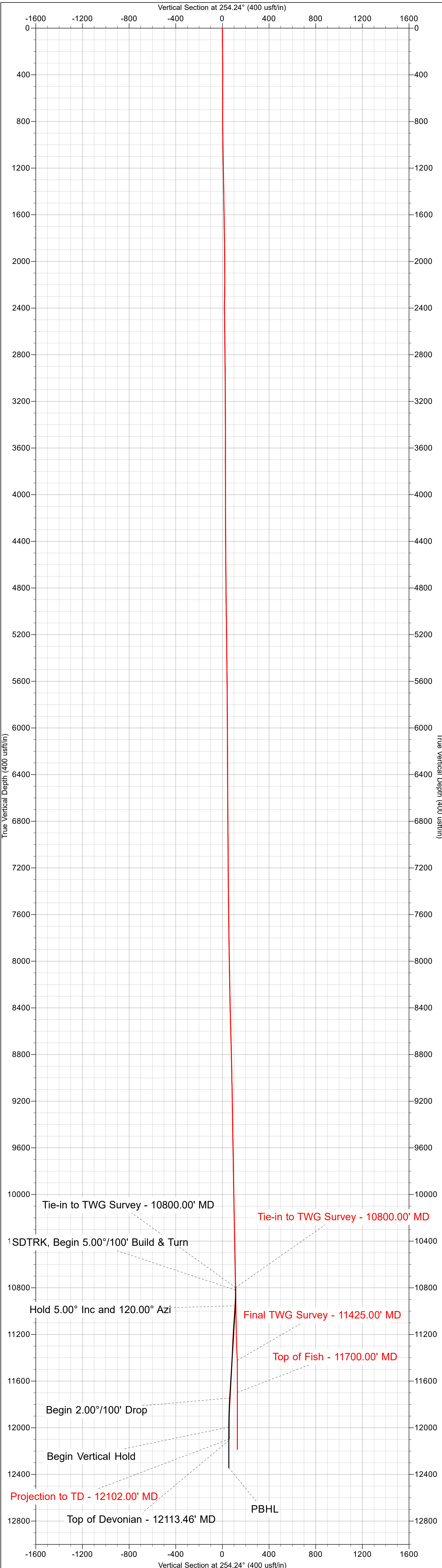
Registered Professional Engineer and/or L. and Surveyor

John W. West
Certificate No. 676

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
10800.00	1.59	310.83	10798.01	26.67	-125.37	113.41	0.00	Tie-in to TWG Survey - 10800.00' MD
10822.00	1.74	295.72	10820.00	27.02	-125.90	113.83	0.64	SDTRK, Begin 5.00°/100' Build & Turn
10956.73	5.00	120.00	10954.60	24.97	-122.66	111.26	6.84	Hold 5.00° Inc and 120.00° Azi
11750.00	5.00	120.00	11744.85	-9.60	-62.78	63.03	75.98	Begin 2.00°/100' Drop
12000.00	0.00	0.00	11994.54	-15.05	-53.34	55.42	86.88	Begin Vertical Hold
12113.46	0.00	0.00	12108.00	-15.05	-53.34	55.42	86.88	Top of Devonian - 12113.46' MD
12350.00	0.00	0.00	12344.54	-15.05	-53.34	55.42	86.88	PBHL



T

M

A

Azimuths to True North

Magnetic North: 6.47°

Magnetic Field

Strength: 48261.4nT

Dip Angle: 61.09°

Date: 8/1/2021

Model: IGRF2020

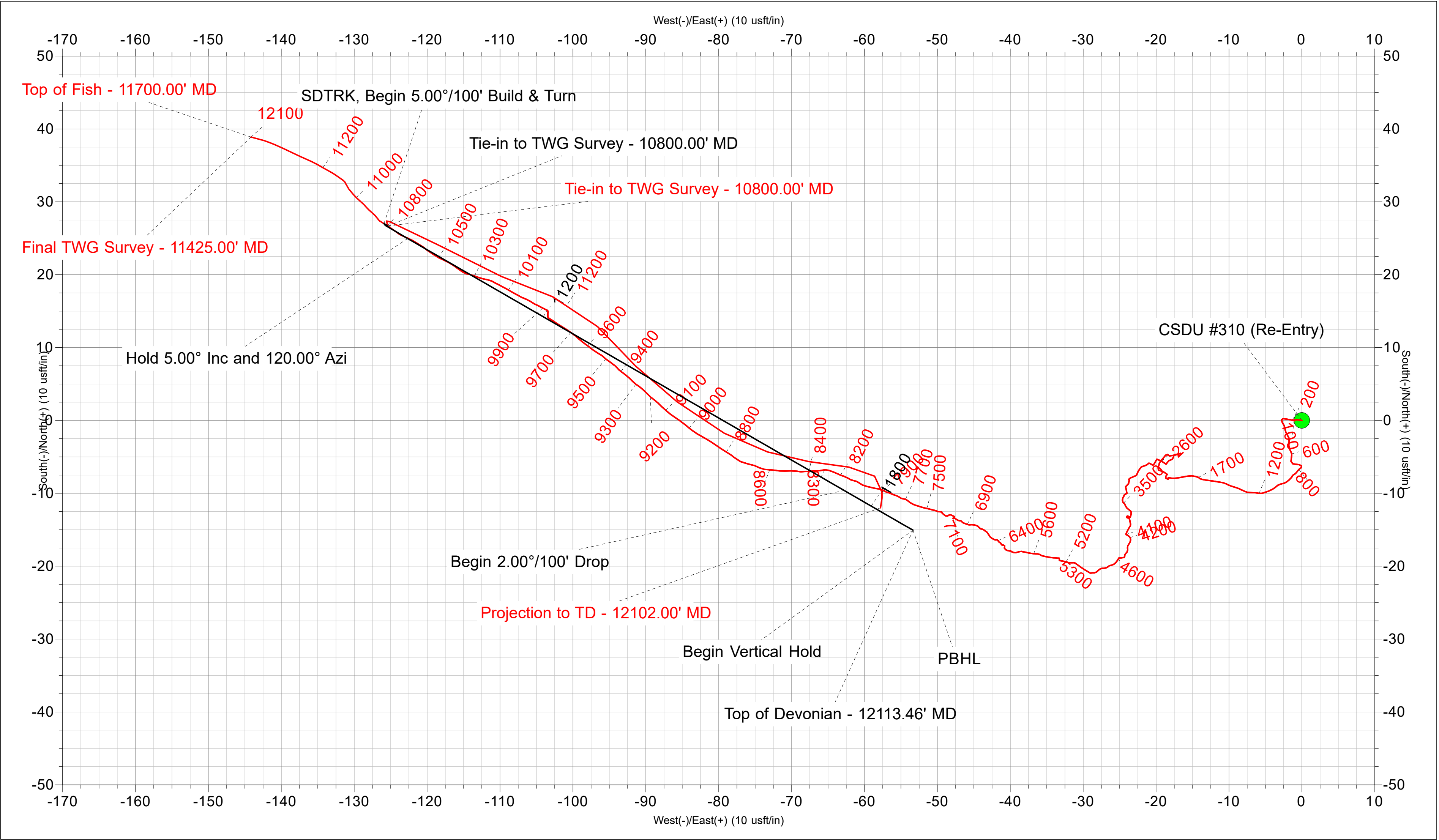
US State Plane 1983

New Mexico Eastern Zone

Created By: HLH

Date: 8:10, August 19 2021

Plan: Sidetrack Design #5



Southwest Royalties

Lea County, New Mexico (NAD83)

CSDU

CSDU #310 (Re-Entry)

Wellbore #2

Design: Surveys

Standard Survey Report

19 August, 2021



Stryker Directional Survey Report



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

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

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

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

Design	Surveys		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	10,800.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°) 254.24

Survey Program	Date 8/19/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
56.70	10,800.00	TWG Survey (Wellbore #1)	GYRO-NS
10,873.00	12,102.00	Stryker MWD (Wellbore #2)	MWD
			Description
			OWSG Gyrocompass Gyro
			OWSG MWD - Standard

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	0.36	1.43	1.43	0.00
75.00	1.06	268.57	75.00	0.08	-0.69	0.64	1.65	1.34	-59.83
100.00	0.62	255.27	99.99	0.04	-1.05	1.00	1.90	-1.74	-53.17
125.00	0.49	301.62	124.99	0.07	-1.27	1.21	1.81	-0.50	185.38
150.00	1.20	109.35	149.99	0.03	-1.12	1.07	6.74	2.83	670.94
175.00	0.65	272.57	174.99	-0.05	-1.01	0.99	7.32	-2.22	652.88
200.00	0.78	291.51	199.99	0.02	-1.31	1.26	1.08	0.55	75.74
225.00	0.90	278.95	224.98	0.12	-1.66	1.57	0.87	0.46	-50.22
250.00	1.16	279.41	249.98	0.19	-2.11	1.98	1.06	1.06	1.84

Stryker Directional Survey Report



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

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)
275.00	1.02	275.27	274.98	0.25	-2.58	2.42	0.66	-0.58	-16.58
300.00	0.87	175.97	299.97	0.08	-2.79	2.66	5.78	-0.58	-397.18
325.00	1.06	152.43	324.97	-0.31	-2.67	2.65	1.73	0.74	-94.16
350.00	0.89	143.09	349.97	-0.67	-2.45	2.54	0.93	-0.69	-37.36
375.00	0.78	179.30	374.96	-1.00	-2.33	2.51	2.11	-0.41	144.85
400.00	0.74	166.45	399.96	-1.33	-2.29	2.56	0.70	-0.16	-51.41
425.00	0.80	154.38	424.96	-1.64	-2.17	2.54	0.68	0.22	-48.27
450.00	1.13	152.72	449.96	-2.02	-1.99	2.46	1.32	1.32	-6.66
475.00	0.75	147.59	474.95	-2.37	-1.79	2.36	1.55	-1.51	-20.50
500.00	1.55	188.11	499.95	-2.85	-1.75	2.45	4.36	3.18	162.07
525.00	1.08	180.93	524.94	-3.41	-1.80	2.66	1.98	-1.87	-28.74
550.00	1.09	155.75	549.94	-3.87	-1.70	2.69	1.89	0.06	-100.71
575.00	0.87	153.24	574.93	-4.25	-1.52	2.62	0.89	-0.87	-10.06
600.00	0.75	162.27	599.93	-4.58	-1.38	2.58	0.71	-0.49	36.12
625.00	1.39	194.69	624.93	-5.03	-1.41	2.72	3.43	2.56	129.69
650.00	1.34	178.70	649.92	-5.62	-1.48	2.95	1.53	-0.20	-63.96
675.00	1.13	101.17	674.92	-5.96	-1.23	2.80	6.22	-0.87	-310.10
700.00	1.17	93.84	699.91	-6.02	-0.74	2.35	0.61	0.18	-29.32
725.00	0.50	102.31	724.91	-6.06	-0.37	2.01	2.71	-2.67	33.86
750.00	1.09	123.40	749.90	-6.22	-0.07	1.76	2.58	2.34	84.36
775.00	0.90	239.82	774.90	-6.45	-0.04	1.79	6.78	-0.76	465.70
800.00	1.19	227.39	799.90	-6.72	-0.40	2.21	1.47	1.17	-49.74
825.00	0.86	206.13	824.89	-7.07	-0.68	2.57	2.00	-1.33	-85.03
850.00	0.72	242.60	849.89	-7.31	-0.90	2.85	2.05	-0.56	145.87
875.00	0.98	235.42	874.89	-7.50	-1.21	3.20	1.11	1.02	-28.70
900.00	0.34	83.39	899.89	-7.61	-1.31	3.33	5.15	-2.53	-608.13
925.00	1.17	219.74	924.89	-7.80	-1.40	3.47	5.74	3.30	545.39
950.00	0.98	227.17	949.88	-8.14	-1.72	3.87	0.93	-0.75	29.72
975.00	0.81	235.28	974.88	-8.39	-2.02	4.22	0.84	-0.67	32.46
1,000.00	1.13	244.01	999.88	-8.60	-2.39	4.63	1.40	1.27	34.90
1,025.00	1.18	266.24	1,024.87	-8.72	-2.87	5.13	1.80	0.22	88.92
1,050.00	1.04	229.40	1,049.87	-8.89	-3.30	5.59	2.86	-0.58	-147.34
1,075.00	1.23	228.51	1,074.86	-9.21	-3.67	6.04	0.78	0.77	-3.56
1,100.00	0.77	251.21	1,099.86	-9.44	-4.03	6.45	2.40	-1.84	90.78
1,125.00	0.83	236.98	1,124.86	-9.60	-4.34	6.79	0.82	0.22	-56.91
1,150.00	1.82	253.29	1,149.85	-9.81	-4.88	7.36	4.22	3.98	65.25
1,175.00	0.82	245.17	1,174.84	-10.00	-5.42	7.93	4.06	-4.00	-32.49
1,200.00	1.26	283.59	1,199.84	-10.01	-5.85	8.35	3.20	1.75	153.70
1,225.00	0.98	273.97	1,224.83	-9.93	-6.33	8.79	1.35	-1.12	-38.50
1,250.00	0.81	274.44	1,249.83	-9.90	-6.72	9.16	0.68	-0.68	1.89
1,275.00	0.98	270.96	1,274.83	-9.88	-7.11	9.53	0.71	0.67	-13.92
1,300.00	0.94	280.95	1,299.82	-9.84	-7.53	9.92	0.68	-0.14	39.96
1,325.00	1.60	298.88	1,324.82	-9.63	-8.03	10.35	3.02	2.61	71.71

Stryker Directional Survey Report



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

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)
1,350.00	1.35	289.73	1,349.81	-9.37	-8.61	10.83	1.36	-0.99	-36.60
1,375.00	0.64	293.48	1,374.81	-9.21	-9.02	11.18	2.83	-2.82	15.01
1,400.00	0.78	279.66	1,399.80	-9.13	-9.32	11.44	0.88	0.56	-55.26
1,425.00	0.64	299.08	1,424.80	-9.03	-9.61	11.70	1.11	-0.57	77.67
1,450.00	1.00	287.00	1,449.80	-8.90	-9.94	11.98	1.60	1.45	-48.34
1,475.00	1.07	301.29	1,474.79	-8.71	-10.34	12.32	1.07	0.27	57.19
1,500.00	1.16	281.80	1,499.79	-8.54	-10.79	12.71	1.56	0.38	-77.98
1,525.00	1.05	275.97	1,524.79	-8.47	-11.27	13.15	0.63	-0.44	-23.33
1,550.00	0.87	286.54	1,549.78	-8.39	-11.68	13.52	1.02	-0.74	42.30
1,575.00	1.51	272.02	1,574.78	-8.32	-12.19	13.99	2.82	2.57	-58.07
1,600.00	1.36	284.58	1,599.77	-8.24	-12.81	14.56	1.40	-0.61	50.21
1,625.00	0.93	274.28	1,624.76	-8.15	-13.30	15.01	1.91	-1.73	-41.18
1,650.00	0.89	282.26	1,649.76	-8.09	-13.69	15.37	0.52	-0.14	31.91
1,675.00	0.70	302.41	1,674.76	-7.97	-14.01	15.65	1.35	-0.78	80.59
1,700.00	0.37	331.12	1,699.76	-7.81	-14.18	15.77	1.64	-1.30	114.85
1,725.00	1.66	279.84	1,724.75	-7.68	-14.57	16.11	5.82	5.15	-205.10
1,750.00	0.93	276.38	1,749.75	-7.60	-15.13	16.63	2.94	-2.93	-13.84
1,775.00	1.08	256.20	1,774.74	-7.63	-15.56	17.05	1.54	0.62	-80.74
1,800.00	1.25	263.61	1,799.74	-7.72	-16.06	17.56	0.91	0.68	29.66
1,825.00	0.66	256.81	1,824.73	-7.78	-16.47	17.97	2.42	-2.38	-27.20
1,850.00	1.18	260.40	1,849.73	-7.86	-16.87	18.37	2.11	2.10	14.36
1,875.00	0.69	258.84	1,874.73	-7.93	-17.27	18.77	1.99	-1.98	-6.25
1,900.00	0.98	275.00	1,899.72	-7.94	-17.63	19.12	1.48	1.16	64.66
1,925.00	0.66	274.88	1,924.72	-7.91	-17.98	19.45	1.27	-1.27	-0.50
1,950.00	0.90	281.90	1,949.72	-7.85	-18.32	19.76	1.04	0.97	28.10
1,975.00	0.94	132.82	1,974.72	-7.95	-18.36	19.83	7.09	0.14	-596.33
2,000.00	0.64	283.64	1,999.72	-8.06	-18.35	19.85	6.12	-1.18	603.28
2,025.00	0.82	298.67	2,024.72	-7.94	-18.64	20.10	1.03	0.70	60.13
2,050.00	0.84	35.78	2,049.71	-7.71	-18.69	20.08	4.95	0.08	388.44
2,075.00	0.91	34.94	2,074.71	-7.40	-18.47	19.78	0.30	0.30	-3.36
2,100.00	2.86	285.71	2,099.70	-7.06	-18.96	20.16	13.12	7.81	-436.94
2,125.00	0.74	315.06	2,124.69	-6.78	-19.67	20.77	9.01	-8.51	117.43
2,150.00	1.02	21.58	2,149.68	-6.46	-19.70	20.72	3.98	1.15	266.08
2,175.00	0.77	9.31	2,174.68	-6.09	-19.59	20.51	1.26	-1.00	-49.09
2,200.00	0.50	14.22	2,199.68	-5.81	-19.54	20.38	1.10	-1.08	19.65
2,225.00	1.57	44.74	2,224.68	-5.46	-19.27	20.03	4.66	4.27	122.07
2,250.00	0.65	33.62	2,249.67	-5.10	-18.95	19.62	3.76	-3.68	-44.48
2,275.00	1.24	40.77	2,274.67	-4.78	-18.70	19.29	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	18.82	0.63	-0.59	18.80
2,350.00	3.29	72.32	2,349.65	-4.75	-17.40	18.04	12.25	10.78	-249.51
2,375.00	0.50	81.06	2,374.63	-4.51	-16.61	17.21	11.20	-11.17	34.96
2,400.00	0.58	256.00	2,399.63	-4.53	-16.62	17.23	4.34	0.33	699.78

Stryker Directional Survey Report



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

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)
2,425.00	1.32	257.32	2,424.63	-4.62	-17.03	17.64	2.93	2.93	5.28
2,450.00	0.57	266.23	2,449.62	-4.69	-17.43	18.05	3.03	-2.98	35.65
2,475.00	1.62	193.25	2,474.62	-5.05	-17.64	18.34	6.22	4.20	-291.95
2,500.00	0.87	270.03	2,499.62	-5.39	-17.91	18.70	6.63	-3.00	307.13
2,525.00	0.71	223.43	2,524.61	-5.50	-18.21	19.02	2.58	-0.64	-186.38
2,550.00	0.75	224.37	2,549.61	-5.73	-18.43	19.29	0.17	0.16	3.75
2,575.00	0.79	209.09	2,574.61	-6.00	-18.63	19.55	0.83	0.14	-61.11
2,600.00	3.44	317.75	2,599.59	-5.60	-19.21	20.01	15.07	10.61	434.62
2,625.00	1.49	211.90	2,624.58	-5.32	-19.89	20.59	16.43	-7.79	-423.41
2,650.00	0.67	202.73	2,649.57	-5.73	-20.12	20.92	3.34	-3.28	-36.66
2,675.00	0.60	215.48	2,674.57	-5.97	-20.25	21.11	0.64	-0.30	51.00
2,700.00	0.53	234.14	2,699.57	-6.14	-20.42	21.32	0.78	-0.28	74.63
2,725.00	1.31	321.51	2,724.57	-5.99	-20.69	21.54	5.57	3.13	349.48
2,750.00	0.64	226.35	2,749.57	-5.86	-20.97	21.77	6.04	-2.71	-380.62
2,775.00	0.75	232.28	2,774.56	-6.05	-21.20	22.05	0.52	0.44	23.70
2,800.00	0.85	254.17	2,799.56	-6.20	-21.51	22.39	1.28	0.42	87.56
2,825.00	0.59	253.67	2,824.56	-6.29	-21.81	22.70	1.06	-1.06	-1.98
2,850.00	0.62	235.40	2,849.56	-6.40	-22.04	22.96	0.78	0.15	-73.08
2,875.00	0.81	203.21	2,874.56	-6.64	-22.23	23.19	1.75	0.75	-128.75
2,900.00	0.93	221.55	2,899.55	-6.96	-22.43	23.48	1.21	0.48	73.36
2,925.00	0.75	184.71	2,924.55	-7.27	-22.58	23.71	2.23	-0.72	-147.38
2,950.00	0.42	230.66	2,949.55	-7.49	-22.66	23.85	2.20	-1.34	183.81
2,975.00	0.61	244.35	2,974.55	-7.61	-22.85	24.06	0.91	0.78	54.75
3,000.00	0.79	246.74	2,999.55	-7.74	-23.13	24.36	0.72	0.71	9.58
3,025.00	0.58	252.98	3,024.54	-7.84	-23.41	24.66	0.90	-0.85	24.96
3,050.00	0.78	229.52	3,049.54	-7.99	-23.66	24.94	1.36	0.82	-93.84
3,075.00	0.29	122.03	3,074.54	-8.13	-23.73	25.05	3.65	-1.94	-429.98
3,100.00	0.21	192.58	3,099.54	-8.21	-23.69	25.03	1.20	-0.34	282.22
3,125.00	0.20	61.44	3,124.54	-8.23	-23.66	25.01	1.50	-0.03	-524.57
3,150.00	0.30	226.18	3,149.54	-8.26	-23.67	25.02	2.01	0.40	658.96
3,175.00	0.36	177.90	3,174.54	-8.38	-23.71	25.10	1.09	0.21	-193.11
3,200.00	0.60	195.42	3,199.54	-8.59	-23.75	25.19	1.14	1.00	70.08
3,225.00	0.45	228.82	3,224.54	-8.78	-23.86	25.34	1.35	-0.60	133.60
3,250.00	0.58	226.29	3,249.54	-8.93	-24.02	25.54	0.51	0.50	-10.14
3,275.00	0.42	218.70	3,274.54	-9.09	-24.17	25.73	0.69	-0.64	-30.37
3,300.00	1.90	158.92	3,299.53	-9.55	-24.08	25.77	6.90	5.91	-239.10
3,325.00	0.44	221.73	3,324.53	-10.01	-23.99	25.81	6.97	-5.85	251.24
3,350.00	0.60	257.12	3,349.53	-10.11	-24.19	26.02	1.41	0.67	141.56
3,375.00	0.46	202.49	3,374.52	-10.23	-24.35	26.21	2.02	-0.56	-218.54
3,400.00	0.43	201.37	3,399.52	-10.41	-24.43	26.33	0.13	-0.12	-4.46
3,425.00	0.62	217.58	3,424.52	-10.61	-24.54	26.50	0.96	0.76	64.85
3,450.00	1.02	175.66	3,449.52	-10.94	-24.61	26.65	2.77	1.57	-167.68
3,475.00	0.32	142.77	3,474.52	-11.21	-24.55	26.67	3.06	-2.77	-131.57
3,500.00	0.35	131.68	3,499.52	-11.32	-24.45	26.60	0.28	0.11	-44.38

Stryker Directional Survey Report



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

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)
3,525.00	0.40	130.81	3,524.52	-11.43	-24.33	26.52	0.21	0.20	-3.47
3,550.00	0.38	179.31	3,549.52	-11.57	-24.26	26.49	1.29	-0.09	193.99
3,575.00	0.85	143.83	3,574.52	-11.80	-24.15	26.44	2.34	1.88	-141.91
3,600.00	0.47	139.86	3,599.51	-12.03	-23.97	26.34	1.53	-1.52	-15.87
3,625.00	0.62	124.93	3,624.51	-12.19	-23.79	26.21	0.81	0.59	-59.72
3,650.00	0.33	130.91	3,649.51	-12.31	-23.63	26.09	1.18	-1.16	23.91
3,675.00	0.37	121.54	3,674.51	-12.40	-23.51	25.99	0.27	0.15	-37.48
3,700.00	0.58	164.75	3,699.51	-12.56	-23.41	25.94	1.61	0.87	172.83
3,725.00	0.70	193.77	3,724.51	-12.83	-23.41	26.02	1.37	0.48	116.10
3,750.00	0.55	194.23	3,749.51	-13.10	-23.48	26.15	0.61	-0.61	1.85
3,775.00	0.40	216.79	3,774.51	-13.29	-23.56	26.28	0.94	-0.59	90.24
3,800.00	1.03	323.01	3,799.51	-13.18	-23.75	26.43	4.82	2.50	424.87
3,825.00	0.62	210.60	3,824.50	-13.11	-23.95	26.61	5.55	-1.64	-449.65
3,850.00	0.24	208.00	3,849.50	-13.28	-24.04	26.75	1.52	-1.52	-10.40
3,875.00	0.63	107.12	3,874.50	-13.36	-23.94	26.67	2.84	1.54	-403.53
3,900.00	0.36	68.57	3,899.50	-13.37	-23.73	26.47	1.64	-1.04	-154.17
3,925.00	1.31	170.36	3,924.50	-13.63	-23.61	26.42	5.70	3.76	407.16
3,950.00	0.47	171.63	3,949.50	-14.01	-23.55	26.47	3.35	-3.35	5.08
3,975.00	0.53	159.38	3,974.50	-14.22	-23.49	26.47	0.50	0.27	-49.02
4,000.00	0.58	209.63	3,999.49	-14.44	-23.51	26.55	1.89	0.16	201.02
4,025.00	1.13	212.56	4,024.49	-14.75	-23.71	26.82	2.21	2.20	11.71
4,050.00	1.48	204.47	4,049.49	-15.25	-23.97	27.21	1.58	1.40	-32.34
4,075.00	0.14	211.37	4,074.48	-15.57	-24.12	27.44	5.36	-5.36	27.59
4,100.00	0.34	160.40	4,099.48	-15.67	-24.11	27.46	1.12	0.83	-203.90
4,125.00	0.24	35.96	4,124.48	-15.69	-24.06	27.42	2.07	-0.42	-497.73
4,150.00	0.47	133.96	4,149.48	-15.72	-23.95	27.32	2.22	0.92	392.00
4,175.00	0.77	118.01	4,174.48	-15.87	-23.73	27.15	1.36	1.18	-63.83
4,200.00	0.55	162.17	4,199.48	-16.06	-23.55	27.03	2.13	-0.88	176.65
4,225.00	0.64	174.95	4,224.48	-16.32	-23.50	27.05	0.65	0.38	51.14
4,250.00	0.42	191.31	4,249.48	-16.55	-23.51	27.12	1.05	-0.87	65.40
4,275.00	0.74	209.96	4,274.47	-16.78	-23.60	27.27	1.48	1.29	74.60
4,300.00	0.53	215.43	4,299.47	-17.01	-23.75	27.48	0.89	-0.86	21.91
4,325.00	0.17	218.12	4,324.47	-17.14	-23.84	27.60	1.45	-1.45	10.74
4,350.00	0.54	193.71	4,349.47	-17.28	-23.89	27.69	1.57	1.48	-97.64
4,375.00	0.49	174.97	4,374.47	-17.50	-23.91	27.76	0.70	-0.20	-74.95
4,400.00	0.68	173.49	4,399.47	-17.75	-23.88	27.81	0.78	0.78	-5.94
4,425.00	0.84	216.22	4,424.47	-18.05	-23.98	27.98	2.30	0.64	170.94
4,450.00	0.65	226.28	4,449.47	-18.29	-24.19	28.25	0.92	-0.76	40.23
4,475.00	0.33	180.97	4,474.47	-18.46	-24.29	28.39	1.92	-1.29	-181.24
4,500.00	0.30	173.94	4,499.46	-18.60	-24.29	28.42	0.20	-0.12	-28.12
4,525.00	0.68	213.48	4,524.46	-18.79	-24.36	28.55	1.94	1.51	158.16
4,550.00	1.44	280.42	4,549.46	-18.86	-24.75	28.94	5.30	3.04	267.76
4,575.00	0.38	210.55	4,574.46	-18.87	-25.10	29.28	5.41	-4.22	-279.47

Stryker Directional Survey Report



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

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)
4,600.00	0.76	210.55	4,599.46	-19.08	-25.23	29.46	1.52	1.52	0.00
4,625.00	0.53	215.61	4,624.45	-19.32	-25.38	29.67	0.94	-0.91	20.24
4,650.00	0.57	222.65	4,649.45	-19.51	-25.53	29.87	0.31	0.15	28.17
4,675.00	0.58	229.64	4,674.45	-19.68	-25.71	30.09	0.28	0.03	27.95
4,700.00	0.84	247.31	4,699.45	-19.83	-25.97	30.38	1.35	1.04	70.69
4,725.00	0.50	279.91	4,724.45	-19.88	-26.25	30.66	1.98	-1.34	130.41
4,750.00	0.36	213.19	4,749.45	-19.93	-26.40	30.82	1.95	-0.57	-266.88
4,775.00	0.48	245.81	4,774.45	-20.04	-26.54	30.98	1.06	0.50	130.46
4,800.00	0.58	229.04	4,799.45	-20.16	-26.73	31.20	0.73	0.38	-67.06
4,825.00	0.90	264.37	4,824.44	-20.26	-27.02	31.51	2.16	1.27	141.33
4,850.00	0.29	273.62	4,849.44	-20.28	-27.28	31.76	2.44	-2.42	36.99
4,875.00	0.59	257.97	4,874.44	-20.30	-27.46	31.95	1.27	1.19	-62.62
4,900.00	0.61	237.15	4,899.44	-20.40	-27.70	32.20	0.87	0.07	-83.26
4,925.00	0.71	225.82	4,924.44	-20.58	-27.92	32.46	0.66	0.42	-45.32
4,950.00	0.81	231.78	4,949.44	-20.80	-28.18	32.76	0.52	0.41	23.82
4,975.00	0.58	267.26	4,974.43	-20.91	-28.44	33.05	1.92	-0.93	141.92
5,000.00	0.81	270.33	4,999.43	-20.92	-28.74	33.34	0.91	0.90	12.30
5,025.00	0.42	255.12	5,024.43	-20.94	-29.01	33.60	1.67	-1.55	-60.84
5,050.00	4.12	304.10	5,049.41	-20.46	-29.84	34.27	15.45	14.83	195.90
5,075.00	1.17	306.34	5,074.38	-19.80	-30.79	35.01	11.81	-11.80	8.99
5,100.00	0.59	308.23	5,099.38	-19.57	-31.10	35.24	2.35	-2.35	7.52
5,125.00	0.58	260.85	5,124.37	-19.52	-31.32	35.45	1.88	-0.01	-189.49
5,150.00	0.42	273.82	5,149.37	-19.53	-31.54	35.66	0.80	-0.66	51.88
5,175.00	1.11	271.53	5,174.37	-19.52	-31.87	35.98	2.77	2.77	-9.16
5,200.00	1.05	291.37	5,199.37	-19.43	-32.33	36.39	1.51	-0.24	79.34
5,225.00	0.92	280.03	5,224.36	-19.31	-32.74	36.75	0.93	-0.52	-45.36
5,250.00	0.51	275.41	5,249.36	-19.26	-33.05	37.04	1.66	-1.65	-18.47
5,275.00	0.57	302.25	5,274.36	-19.19	-33.26	37.22	1.02	0.24	107.34
5,300.00	0.76	37.54	5,299.36	-18.99	-33.27	37.17	3.94	0.76	381.17
5,325.00	0.50	251.94	5,324.36	-18.89	-33.27	37.15	4.81	-1.02	-582.41
5,350.00	0.79	283.44	5,349.36	-18.89	-33.54	37.41	1.79	1.16	126.03
5,375.00	0.54	264.75	5,374.36	-18.86	-33.83	37.68	1.33	-1.02	-74.78
5,400.00	0.63	278.69	5,399.35	-18.85	-34.08	37.92	0.68	0.37	55.79
5,425.00	1.35	276.23	5,424.35	-18.79	-34.51	38.31	2.89	2.88	-9.85
5,450.00	1.84	282.22	5,449.34	-18.68	-35.19	38.94	2.06	1.95	23.94
5,475.00	0.56	292.31	5,474.33	-18.55	-35.70	39.39	5.15	-5.10	40.38
5,500.00	0.54	306.34	5,499.33	-18.43	-35.91	39.56	0.55	-0.09	56.10
5,525.00	0.34	280.19	5,524.33	-18.35	-36.07	39.70	1.11	-0.80	-104.58
5,550.00	0.61	276.17	5,549.33	-18.32	-36.28	39.89	1.06	1.06	-16.10
5,575.00	0.44	266.32	5,574.33	-18.31	-36.50	40.11	0.77	-0.68	-39.37
5,600.00	0.80	280.33	5,599.33	-18.29	-36.77	40.36	1.56	1.45	56.02
5,625.00	0.57	275.88	5,624.33	-18.24	-37.07	40.63	0.94	-0.92	-17.80
5,650.00	0.49	276.84	5,649.33	-18.22	-37.29	40.84	0.33	-0.32	3.85

Stryker Directional Survey Report



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

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)	
5,675.00	0.51	287.28	5,674.33	-18.17	-37.51	41.03	0.37	0.09	41.74	
5,700.00	0.52	278.16	5,699.32	-18.12	-37.73	41.23	0.33	0.06	-36.46	
5,725.00	0.45	287.35	5,724.32	-18.08	-37.93	41.41	0.44	-0.31	36.78	
5,750.00	0.56	268.80	5,749.32	-18.05	-38.15	41.61	0.79	0.45	-74.20	
5,775.00	0.32	310.40	5,774.32	-18.01	-38.32	41.77	1.54	-0.97	166.36	
5,800.00	0.50	267.31	5,799.32	-17.97	-38.48	41.92	1.38	0.73	-172.32	
5,825.00	0.49	256.87	5,824.32	-18.00	-38.69	42.13	0.36	-0.05	-41.77	
5,850.00	0.50	255.48	5,849.32	-18.05	-38.90	42.34	0.07	0.05	-5.56	
5,875.00	0.40	248.29	5,874.32	-18.11	-39.09	42.54	0.44	-0.38	-28.79	
5,900.00	0.52	268.48	5,899.32	-18.14	-39.28	42.74	0.81	0.48	80.78	
5,925.00	0.74	280.08	5,924.32	-18.12	-39.56	42.99	1.00	0.86	46.41	
5,950.00	0.62	307.09	5,949.31	-18.01	-39.83	43.22	1.35	-0.47	108.02	
5,975.00	0.17	324.35	5,974.31	-17.90	-39.96	43.31	1.84	-1.80	69.05	
6,000.00	0.15	95.61	5,999.31	-17.87	-39.95	43.30	1.17	-0.11	525.03	
6,025.00	0.30	245.54	6,024.31	-17.90	-39.97	43.33	1.73	0.61	599.72	
6,050.00	0.44	282.81	6,049.31	-17.90	-40.13	43.48	1.09	0.58	149.10	
6,075.00	0.24	287.52	6,074.31	-17.87	-40.27	43.61	0.81	-0.80	18.82	
6,100.00	0.30	276.55	6,099.31	-17.84	-40.39	43.72	0.32	0.24	-43.86	
6,125.00	0.64	297.96	6,124.31	-17.77	-40.58	43.88	1.50	1.35	85.64	
6,150.00	0.48	338.34	6,149.31	-17.61	-40.74	43.99	1.66	-0.63	161.50	
6,175.00	0.11	270.31	6,174.31	-17.51	-40.80	44.02	1.81	-1.50	-272.09	
6,200.00	0.73	22.59	6,199.31	-17.36	-40.76	43.95	3.12	2.50	449.09	
6,225.00	0.37	296.84	6,224.31	-17.18	-40.77	43.91	3.19	-1.44	-342.97	
6,250.00	0.55	294.30	6,249.31	-17.09	-40.96	44.06	0.70	0.69	-10.16	
6,275.00	0.32	226.79	6,274.31	-17.09	-41.11	44.21	2.07	-0.91	-270.07	
6,300.00	0.52	337.17	6,299.31	-17.03	-41.21	44.29	2.78	0.79	441.52	
6,325.00	0.26	345.17	6,324.31	-16.88	-41.27	44.30	1.06	-1.04	32.02	
6,350.00	0.38	288.63	6,349.31	-16.80	-41.36	44.37	1.28	0.50	-226.18	
6,375.00	0.52	308.98	6,374.31	-16.70	-41.53	44.50	0.82	0.54	81.40	
6,400.00	0.63	335.38	6,399.30	-16.50	-41.67	44.59	1.13	0.44	105.62	
6,425.00	0.38	277.92	6,424.30	-16.37	-41.81	44.68	2.12	-0.97	-229.85	
6,450.00	0.37	236.65	6,449.30	-16.40	-41.96	44.84	1.06	-0.08	-165.09	
6,475.00	0.62	298.89	6,474.30	-16.38	-42.14	45.01	2.20	1.00	248.96	
6,500.00	0.50	303.20	6,499.30	-16.25	-42.35	45.18	0.48	-0.45	17.25	
6,525.00	0.52	296.12	6,524.30	-16.14	-42.55	45.33	0.27	0.08	-28.34	
6,550.00	0.46	311.73	6,549.30	-16.03	-42.72	45.47	0.59	-0.26	62.47	
6,575.00	1.55	332.36	6,574.29	-15.66	-42.95	45.59	4.54	4.37	82.50	
6,600.00	0.55	299.92	6,599.29	-15.30	-43.21	45.75	4.51	-4.02	-129.76	
6,625.00	0.40	295.81	6,624.29	-15.21	-43.40	45.89	0.60	-0.58	-16.41	
6,650.00	0.79	320.89	6,649.29	-15.03	-43.58	46.03	1.83	1.55	100.30	
6,675.00	0.57	259.34	6,674.29	-14.92	-43.81	46.22	2.88	-0.87	-246.21	
6,700.00	0.76	302.73	6,699.29	-14.86	-44.08	46.45	2.09	0.76	173.58	
6,725.00	0.43	329.60	6,724.28	-14.69	-44.26	46.59	1.70	-1.32	107.46	
6,750.00	0.89	308.23	6,749.28	-14.49	-44.46	46.72	2.04	1.82	-85.45	

Stryker Directional Survey Report



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

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	47.07	2.52	1.09	-130.16
6,800.00	0.46	274.04	6,799.28	-14.31	-45.22	47.40	2.80	-2.80	-6.60
6,825.00	0.26	265.08	6,824.28	-14.31	-45.37	47.55	0.83	-0.80	-35.84
6,850.00	0.44	263.78	6,849.27	-14.32	-45.52	47.70	0.74	0.74	-5.20
6,875.00	0.27	281.46	6,874.27	-14.32	-45.68	47.85	0.82	-0.70	70.69
6,900.00	0.70	288.52	6,899.27	-14.26	-45.88	48.03	1.73	1.72	28.26
6,925.00	0.84	289.98	6,924.27	-14.15	-46.20	48.30	0.57	0.57	5.83
6,950.00	0.75	294.90	6,949.27	-14.02	-46.52	48.58	0.44	-0.35	19.69
6,975.00	0.48	347.72	6,974.27	-13.85	-46.69	48.69	2.40	-1.09	211.26
7,000.00	0.28	235.42	6,999.27	-13.78	-46.76	48.75	2.57	-0.80	-449.20
7,025.00	0.95	285.30	7,024.27	-13.76	-47.01	48.98	3.21	2.69	199.54
7,050.00	0.69	305.37	7,049.26	-13.62	-47.33	49.25	1.55	-1.06	80.27
7,075.00	0.67	312.58	7,074.26	-13.43	-47.56	49.42	0.35	-0.09	28.82
7,100.00	0.95	244.65	7,099.26	-13.42	-47.86	49.71	3.73	1.14	-271.70
7,125.00	1.49	64.87	7,124.26	-13.37	-47.75	49.59	9.76	2.16	-719.12
7,150.00	0.88	282.41	7,149.25	-13.19	-47.64	49.44	9.00	-2.46	-569.84
7,175.00	0.75	310.14	7,174.25	-13.05	-47.96	49.70	1.63	-0.49	110.92
7,200.00	0.77	277.03	7,199.25	-12.92	-48.25	49.94	1.74	0.06	-132.45
7,225.00	0.49	195.96	7,224.25	-13.00	-48.44	50.15	3.38	-1.14	-324.29
7,250.00	0.56	264.57	7,249.25	-13.12	-48.60	50.33	2.38	0.31	274.44
7,275.00	0.58	282.38	7,274.25	-13.10	-48.84	50.56	0.72	0.08	71.26
7,300.00	0.96	320.25	7,299.24	-12.91	-49.10	50.76	2.45	1.49	151.48
7,325.00	0.50	286.14	7,324.24	-12.72	-49.34	50.94	2.45	-1.83	-136.42
7,350.00	0.62	22.58	7,349.24	-12.57	-49.39	50.95	3.34	0.46	385.76
7,375.00	0.97	243.82	7,374.24	-12.54	-49.53	51.07	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	51.79	1.69	0.03	-92.80
7,450.00	0.54	281.43	7,449.23	-12.28	-50.67	52.10	2.07	-2.07	6.47
7,475.00	1.29	287.93	7,474.23	-12.17	-51.06	52.44	3.04	3.02	26.01
7,500.00	0.53	272.13	7,499.22	-12.08	-51.44	52.79	3.19	-3.06	-63.19
7,525.00	1.07	287.65	7,524.22	-12.00	-51.78	53.09	2.32	2.17	62.08
7,550.00	0.72	283.22	7,549.22	-11.89	-52.15	53.42	1.44	-1.41	-17.72
7,575.00	0.75	291.60	7,574.22	-11.80	-52.46	53.69	0.45	0.12	33.51
7,600.00	0.88	284.08	7,599.21	-11.69	-52.80	53.99	0.66	0.50	-30.08
7,625.00	1.14	291.75	7,624.21	-11.55	-53.21	54.35	1.17	1.04	30.70
7,650.00	1.66	303.42	7,649.20	-11.26	-53.74	54.78	2.39	2.11	46.66
7,675.00	0.58	320.51	7,674.20	-10.96	-54.13	55.07	4.50	-4.34	68.35
7,700.00	0.73	286.38	7,699.20	-10.82	-54.36	55.26	1.63	0.60	-136.51
7,725.00	0.50	276.70	7,724.19	-10.77	-54.62	55.49	0.98	-0.89	-38.73
7,750.00	0.93	287.26	7,749.19	-10.69	-54.93	55.76	1.79	1.72	42.26
7,775.00	1.05	311.61	7,774.19	-10.48	-55.29	56.06	1.73	0.46	97.41
7,800.00	0.78	274.85	7,799.19	-10.31	-55.63	56.34	2.52	-1.07	-147.04
7,825.00	1.62	295.19	7,824.18	-10.15	-56.12	56.77	3.71	3.35	81.36

Stryker Directional Survey Report



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

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)
7,850.00	0.82	290.04	7,849.17	-9.94	-56.61	57.18	3.24	-3.21	-20.60
7,875.00	0.92	281.42	7,874.17	-9.84	-56.97	57.50	0.68	0.43	-34.48
7,900.00	1.21	314.50	7,899.17	-9.61	-57.36	57.81	2.65	1.13	132.30
7,925.00	1.72	272.24	7,924.16	-9.41	-57.92	58.30	4.62	2.04	-169.03
7,950.00	1.09	288.09	7,949.15	-9.33	-58.52	58.85	2.91	-2.49	63.40
7,975.00	1.28	280.07	7,974.15	-9.20	-59.02	59.30	0.99	0.74	-32.09
8,000.00	1.73	285.23	7,999.14	-9.05	-59.66	59.88	1.88	1.80	20.66
8,025.00	1.02	291.59	8,024.13	-8.87	-60.23	60.38	2.90	-2.84	25.45
8,050.00	1.20	309.39	8,049.13	-8.62	-60.64	60.70	1.56	0.73	71.20
8,075.00	0.98	291.64	8,074.12	-8.38	-61.04	61.02	1.61	-0.88	-71.01
8,100.00	0.84	276.97	8,099.12	-8.28	-61.42	61.36	1.10	-0.59	-58.69
8,125.00	1.26	293.94	8,124.11	-8.14	-61.86	61.74	2.10	1.71	67.90
8,150.00	1.17	305.08	8,149.11	-7.89	-62.32	62.12	1.02	-0.38	44.58
8,175.00	1.35	284.35	8,174.10	-7.67	-62.81	62.53	1.94	0.70	-82.95
8,200.00	0.84	296.48	8,199.10	-7.51	-63.26	62.92	2.21	-2.02	48.54
8,225.00	1.47	293.76	8,224.09	-7.30	-63.72	63.30	2.53	2.52	-10.87
8,250.00	1.36	291.91	8,249.09	-7.06	-64.29	63.79	0.48	-0.44	-7.44
8,275.00	1.41	286.99	8,274.08	-6.86	-64.85	64.28	0.51	0.18	-19.65
8,300.00	1.26	270.32	8,299.07	-6.77	-65.42	64.80	1.65	-0.57	-66.70
8,325.00	1.21	248.68	8,324.07	-6.86	-65.95	65.33	1.87	-0.23	-86.56
8,350.00	1.22	277.96	8,349.06	-6.92	-66.45	65.84	2.45	0.05	117.14
8,375.00	1.36	259.91	8,374.05	-6.94	-67.01	66.37	1.71	0.56	-72.20
8,400.00	1.44	270.50	8,399.05	-6.99	-67.61	66.97	1.08	0.33	42.35
8,425.00	1.40	265.03	8,424.04	-7.01	-68.23	67.57	0.57	-0.16	-21.87
8,450.00	0.79	268.27	8,449.03	-7.04	-68.71	68.04	2.45	-2.44	12.94
8,475.00	1.74	281.60	8,474.03	-6.97	-69.25	68.54	3.96	3.81	53.33
8,500.00	2.02	267.40	8,499.02	-6.91	-70.07	69.31	2.15	1.10	-56.79
8,525.00	1.80	270.07	8,524.00	-6.93	-70.90	70.12	0.93	-0.86	10.67
8,550.00	1.59	271.00	8,548.99	-6.93	-71.64	70.83	0.87	-0.86	3.72
8,575.00	1.38	286.97	8,573.98	-6.83	-72.27	71.41	1.85	-0.85	63.89
8,600.00	1.86	266.06	8,598.97	-6.77	-72.96	72.06	3.03	1.95	-83.65
8,625.00	1.66	283.94	8,623.96	-6.71	-73.72	72.77	2.33	-0.82	71.54
8,650.00	1.68	292.20	8,648.95	-6.49	-74.41	73.38	0.97	0.11	33.01
8,675.00	1.61	295.65	8,673.94	-6.20	-75.07	73.93	0.49	-0.28	13.81
8,700.00	2.77	277.44	8,698.92	-5.97	-75.98	74.75	5.34	4.62	-72.84
8,725.00	2.21	300.91	8,723.90	-5.64	-77.00	75.63	4.61	-2.24	93.90
8,750.00	1.63	305.40	8,748.88	-5.19	-77.70	76.19	2.39	-2.32	17.95
8,775.00	1.94	307.37	8,773.87	-4.72	-78.33	76.67	1.27	1.25	7.90
8,800.00	1.29	296.13	8,798.86	-4.34	-78.92	77.13	2.91	-2.63	-44.96
8,825.00	2.78	304.31	8,823.85	-3.88	-79.67	77.73	6.06	5.97	32.71
8,850.00	1.79	304.10	8,848.83	-3.32	-80.49	78.37	3.94	-3.94	-0.86
8,875.00	1.55	303.89	8,873.81	-2.91	-81.10	78.84	0.95	-0.95	-0.84
8,900.00	1.51	299.95	8,898.81	-2.56	-81.66	79.29	0.45	-0.17	-15.73

Stryker Directional Survey Report



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

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)	
8,925.00	1.63	298.20	8,923.80	-2.22	-82.26	79.77	0.51	0.48	-7.02	
8,950.00	1.75	300.72	8,948.79	-1.86	-82.90	80.29	0.54	0.46	10.10	
8,975.00	1.55	307.41	8,973.78	-1.46	-83.50	80.76	1.10	-0.78	26.73	
9,000.00	1.40	305.33	8,998.77	-1.08	-84.02	81.15	0.64	-0.61	-8.31	
9,025.00	1.19	318.92	9,023.76	-0.71	-84.44	81.45	1.48	-0.83	54.36	
9,050.00	4.72	303.98	9,048.72	0.06	-85.46	82.23	14.32	14.11	-59.75	
9,075.00	1.60	304.35	9,073.68	0.83	-86.60	83.12	12.46	-12.46	1.48	
9,100.00	2.25	314.97	9,098.67	1.38	-87.24	83.58	2.95	2.60	42.45	
9,125.00	1.65	308.48	9,123.65	1.95	-87.86	84.03	2.55	-2.40	-25.94	
9,150.00	1.08	323.35	9,148.65	2.36	-88.29	84.33	2.67	-2.28	59.46	
9,175.00	1.74	302.09	9,173.64	2.75	-88.75	84.67	3.32	2.63	-85.02	
9,200.00	1.71	314.78	9,198.63	3.22	-89.33	85.10	1.53	-0.11	50.77	
9,225.00	1.65	314.79	9,223.62	3.73	-89.86	85.46	0.23	-0.23	0.03	
9,250.00	1.64	311.68	9,248.61	4.23	-90.38	85.83	0.36	-0.06	-12.46	
9,275.00	1.26	308.00	9,273.60	4.63	-90.86	86.19	1.57	-1.52	-14.70	
9,300.00	1.32	302.37	9,298.59	4.95	-91.32	86.54	0.57	0.25	-22.51	
9,325.00	1.48	317.73	9,323.59	5.35	-91.78	86.88	1.62	0.63	61.43	
9,350.00	1.51	310.69	9,348.58	5.80	-92.25	87.20	0.74	0.12	-28.18	
9,375.00	1.52	310.25	9,373.57	6.23	-92.75	87.57	0.07	0.05	-1.76	
9,400.00	1.98	305.56	9,398.56	6.69	-93.35	88.03	1.92	1.84	-18.76	
9,425.00	0.79	323.64	9,423.55	7.08	-93.81	88.36	5.01	-4.75	72.32	
9,450.00	1.79	311.87	9,448.54	7.48	-94.20	88.62	4.11	3.99	-47.08	
9,475.00	1.96	303.61	9,473.53	7.98	-94.84	89.11	1.27	0.68	-33.01	
9,500.00	1.56	307.90	9,498.52	8.42	-95.47	89.59	1.69	-1.60	17.16	
9,525.00	0.90	318.12	9,523.51	8.78	-95.86	89.88	2.77	-2.64	40.88	
9,550.00	2.62	298.95	9,548.50	9.20	-96.49	90.37	7.18	6.88	-76.68	
9,575.00	1.82	308.47	9,573.48	9.72	-97.30	91.01	3.50	-3.18	38.06	
9,600.00	1.82	309.01	9,598.47	10.22	-97.92	91.47	0.07	0.00	2.17	
9,625.00	1.76	303.02	9,623.46	10.68	-98.56	91.95	0.78	-0.23	-23.94	
9,650.00	1.61	315.10	9,648.44	11.14	-99.13	92.37	1.54	-0.61	48.30	
9,675.00	1.57	307.45	9,673.43	11.59	-99.65	92.75	0.86	-0.16	-30.61	
9,700.00	1.82	306.16	9,698.42	12.04	-100.24	93.20	1.01	1.00	-5.14	
9,725.00	1.75	304.64	9,723.41	12.49	-100.87	93.69	0.32	-0.26	-6.10	
9,750.00	1.76	297.77	9,748.40	12.88	-101.53	94.21	0.84	0.01	-27.46	
9,775.00	1.80	305.96	9,773.39	13.29	-102.18	94.73	1.03	0.17	32.76	
9,800.00	1.45	304.69	9,798.38	13.70	-102.76	95.18	1.41	-1.40	-5.08	
9,825.00	1.43	300.04	9,823.37	14.04	-103.29	95.59	0.47	-0.08	-18.62	
9,850.00	2.08	16.09	9,848.36	14.63	-103.43	95.57	8.88	2.60	304.22	
9,875.00	1.33	287.84	9,873.35	15.16	-103.59	95.58	9.74	-2.98	-353.03	
9,900.00	1.29	302.93	9,898.35	15.40	-104.10	96.00	1.39	-0.19	60.35	
9,925.00	1.57	295.05	9,923.34	15.69	-104.64	96.45	1.38	1.14	-31.50	
9,950.00	1.54	296.37	9,948.33	15.99	-105.26	96.96	0.18	-0.11	5.29	
9,975.00	1.64	306.91	9,973.32	16.35	-105.84	97.42	1.23	0.38	42.14	
10,000.00	1.39	284.54	9,998.31	16.64	-106.42	97.90	2.54	-0.99	-89.48	

Stryker Directional Survey Report



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

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)
10,025.00	1.62	299.57	10,023.30	16.90	-107.03	98.41	1.82	0.92	60.12
10,050.00	1.40	298.39	10,048.29	17.21	-107.60	98.88	0.92	-0.91	-4.70
10,075.00	1.28	299.59	10,073.29	17.50	-108.11	99.30	0.49	-0.47	4.80
10,100.00	2.17	299.50	10,098.28	17.87	-108.77	99.82	3.58	3.58	-0.36
10,125.00	1.44	297.43	10,123.26	18.25	-109.46	100.39	2.93	-2.92	-8.26
10,150.00	1.60	298.01	10,148.25	18.56	-110.05	100.87	0.62	0.62	2.29
10,175.00	1.39	297.73	10,173.25	18.86	-110.62	101.34	0.84	-0.84	-1.10
10,200.00	1.25	297.06	10,198.24	19.12	-111.13	101.76	0.56	-0.56	-2.70
10,225.00	1.39	280.14	10,223.23	19.30	-111.67	102.23	1.65	0.56	-67.67
10,250.00	1.05	281.69	10,248.23	19.40	-112.19	102.71	1.37	-1.36	6.20
10,275.00	1.91	288.61	10,273.22	19.58	-112.81	103.25	3.53	3.47	27.67
10,300.00	1.23	291.44	10,298.21	19.81	-113.46	103.81	2.74	-2.72	11.34
10,325.00	1.50	285.36	10,323.20	20.00	-114.02	104.31	1.21	1.07	-24.31
10,350.00	1.33	282.23	10,348.19	20.14	-114.62	104.84	0.77	-0.70	-12.54
10,375.00	1.39	306.81	10,373.19	20.39	-115.15	105.28	2.32	0.25	98.34
10,400.00	1.58	304.43	10,398.18	20.76	-115.67	105.69	0.81	0.78	-9.54
10,425.00	1.81	306.15	10,423.17	21.19	-116.28	106.15	0.92	0.90	6.88
10,450.00	1.86	299.00	10,448.16	21.62	-116.95	106.68	0.94	0.23	-28.60
10,475.00	1.91	294.58	10,473.14	21.99	-117.69	107.29	0.62	0.20	-17.68
10,500.00	1.54	296.83	10,498.13	22.32	-118.37	107.85	1.52	-1.49	8.98
10,525.00	2.02	304.50	10,523.12	22.72	-119.03	108.38	2.14	1.92	30.70
10,550.00	1.93	302.09	10,548.10	23.19	-119.75	108.95	0.50	-0.37	-9.64
10,575.00	0.83	319.99	10,573.10	23.55	-120.22	109.30	4.68	-4.40	71.59
10,600.00	1.88	299.73	10,598.09	23.89	-120.69	109.67	4.54	4.19	-81.02
10,625.00	1.64	304.90	10,623.08	24.30	-121.34	110.18	1.13	-0.94	20.68
10,650.00	1.54	298.59	10,648.07	24.67	-121.93	110.65	0.80	-0.40	-25.24
10,675.00	1.75	292.91	10,673.06	24.98	-122.58	111.18	1.05	0.82	-22.72
10,700.00	1.35	295.14	10,698.05	25.25	-123.19	111.70	1.62	-1.60	8.90
10,725.00	1.32	297.59	10,723.04	25.51	-123.72	112.14	0.25	-0.11	9.81
10,750.00	1.64	310.49	10,748.03	25.87	-124.24	112.54	1.84	1.28	51.59
10,775.00	1.56	299.68	10,773.02	26.28	-124.81	112.98	1.25	-0.32	-43.24
10,800.00	1.59	310.84	10,798.01	26.67	-125.37	113.41	1.23	0.13	44.64
Tie-in to TWG Survey - 10800.00' MD									
10,873.00	0.90	87.10	10,871.01	27.36	-125.56	113.41	3.19	-0.95	186.66
10,890.00	2.50	108.60	10,888.00	27.25	-125.08	112.97	9.97	9.41	126.47
10,982.00	6.60	118.30	10,979.69	24.10	-118.52	107.52	4.52	4.46	10.54
11,077.00	5.20	114.10	11,074.18	19.76	-109.78	100.29	1.54	-1.47	-4.42
11,171.00	4.00	108.50	11,167.88	16.98	-102.78	94.31	1.36	-1.28	-5.96
11,266.00	5.20	135.10	11,262.58	12.88	-96.60	89.47	2.54	1.26	28.00
11,362.00	3.80	137.30	11,358.28	7.46	-91.37	85.91	1.47	-1.46	2.29
11,457.00	5.30	126.10	11,452.98	2.56	-85.69	81.78	1.83	1.58	-11.79
11,552.00	4.10	120.50	11,547.66	-1.75	-79.22	76.72	1.35	-1.26	-5.89
11,648.00	3.70	105.60	11,643.44	-4.33	-73.28	71.70	1.13	-0.42	-15.52

Stryker Directional Survey Report



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

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)	
11,742.00	3.40	100.30	11,737.26	-5.64	-67.62	66.61	0.47	-0.32	-5.64	
11,837.00	3.30	95.50	11,832.10	-6.41	-62.12	61.53	0.31	-0.11	-5.05	
11,930.00	1.60	139.10	11,925.02	-7.64	-58.61	58.48	2.59	-1.83	46.88	
12,024.00	1.50	172.60	12,018.99	-9.86	-57.59	58.10	0.96	-0.11	35.64	
12,053.00	1.60	188.10	12,047.98	-10.63	-57.60	58.32	1.48	0.34	53.45	
12,102.00	1.60	188.10	12,096.96	-11.99	-57.79	58.88	0.00	0.00	0.00	
Projection to TD - 12102.00' MD										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
10,800.00	10,798.01	26.67	-125.37	Tie-in to TWG Survey - 10800.00' MD	
12,102.00	12,096.96	-11.99	-57.79	Projection to TD - 12102.00' MD	

Checked By: _____ Approved By: _____ Date: _____

District I
1625 N. French Dr., Hobbs, NM 88240
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
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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 29737

CONDITIONS

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 29737
	Action Type: [C-102] Well Location & Acreage Plat (C-102)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	8/30/2021