



April 13, 2018

Crestone Peak Resources Operating LLC  
1801 California Street, #2500  
Denver, CO 80202

RE: COGCC Rule 317.s: Statewide Fracture Stimulation Setback  
Rinn Valley East N17-20-6N  
SWSE Section #17, Township 2 North, Range 68 West  
Weld County, Colorado

Dear Operator,

Extraction Oil & Gas, Inc. (Extraction) intends to apply to the Colorado Oil and Gas Conversation Commission ("COGCC") to drill and operate the above referenced well. Pursuant to the following COGCC Rule 317.s. Statewide Fracture Stimulation Setback:

- (1) No portion of a proposed wellbore's treated interval shall be located within 150 feet of an existing (producing, shut-in, or temporarily abandoned) or permitted oil and gas wellbore's treated interval belonging to another operator without the signed written consent of the operator of the encroached upon wellbore. The signed written consent shall be attached to the Application for Permit-to-Drill, Form 2 for the proposed wellbore.*
- (2) The distance between wellbores measurement shall be based upon the directional survey for drilled wellbores and the deviated drilling plan for permitted wellbores, or as otherwise reflected in the COGCC well records. The distance shall be measured from the perforation or mechanical isolation device.*

As currently planned, the proposed treated interval of the aforementioned subject horizontal well will lie within 150 feet of the treated interval of the following well belonging to Crestone Peak Resources Operating LLC:

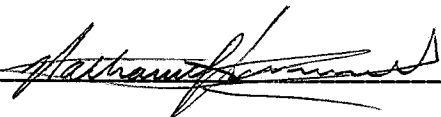
**File 1-17, API #05-123-34128, located in the NWNE of Section #17-T2N-R68W, Closest distance: 107.53'**

Please see enclosed the Well Location Plat and Anti-Collision Report detailing the planned wellbore. Should you find the stimulation of the proposed wellbore acceptable, please indicate so by signing the below section and returning the signed letter either via email to [kwelch@extractionog.com](mailto:kwelch@extractionog.com) or by mail. Please contact the undersigned at 720-354-4607 with any questions.

Sincerely,

Kelsi Welch  
Regulatory Analyst  
Extraction Oil & Gas, Inc.

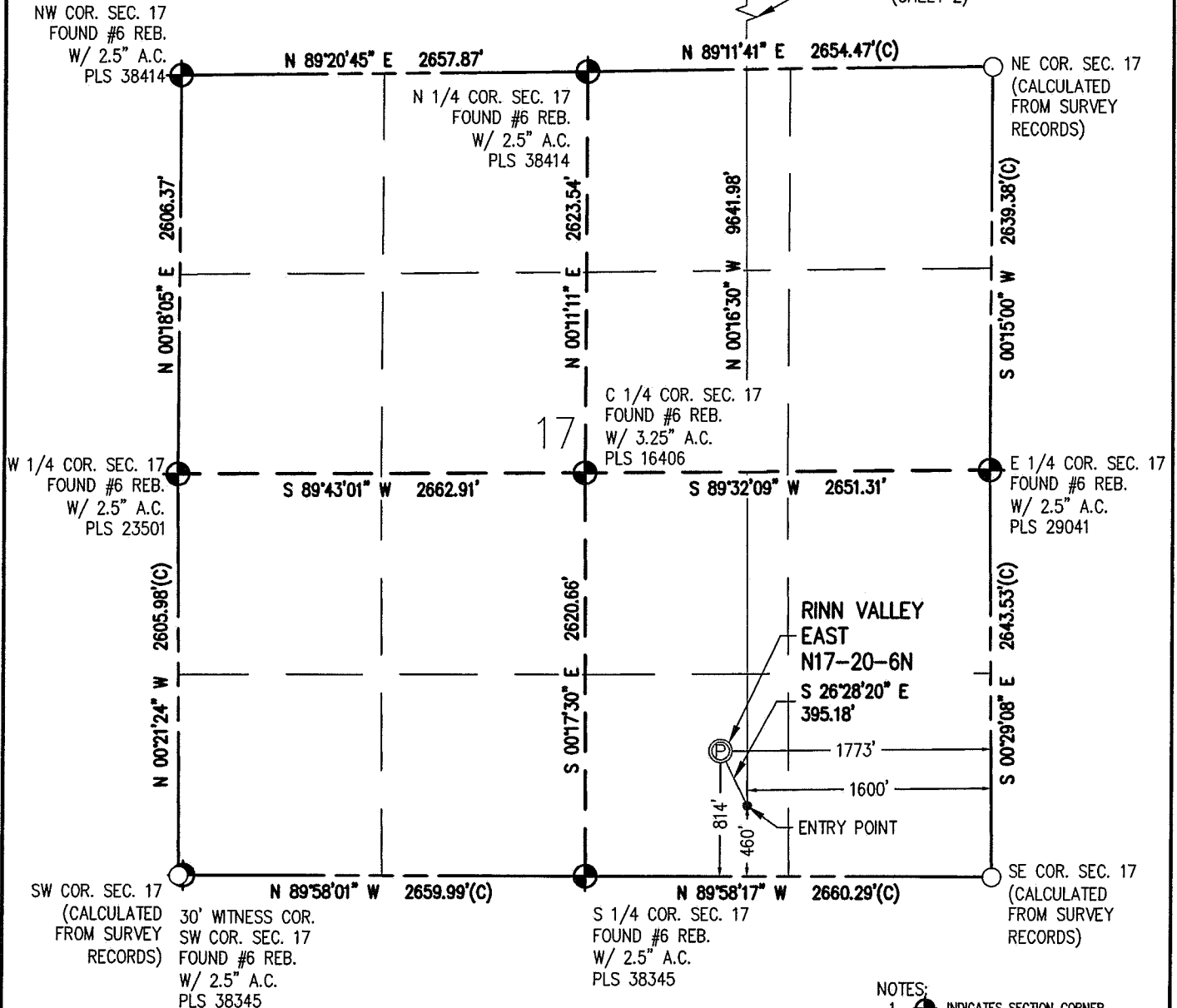
I, NATHANIEL KURCZEWSKI, officer, agent, or employee of  
CRESTONE PEAK RESOURCES operator of the affected well, with full power to execute the following, do  
hereby approve of the **Rinn Valley East N17-20-6N** well as listed above in **Sec. #17-T2N-R68W** and grant  
consent pursuant to COGCC Rule 317.s., granting that this well may drilled as planned.

Signed  this 19<sup>th</sup> day of APRIL, 2018

# WELL LOCATION PLAT RINN VALLEY EAST N17-20-6N

SW1/4 SE1/4 SEC. 17, T2N, R68W, 6TH P.M.

WELL BORE  
CONTINUES  
INTO  
SECTION 8  
(SHEET 2)



## NOTES:

1. INDICATES SECTION CORNER
2. INDICATES CALCULATED CORNER
3. (C) INDICATES CALCULATED DIMENSION
4. ELEVATION BASED ON NAVD88 (GEOID12B)
5. BEARINGS DERIVED FROM COLORADO COORDINATE SYSTEM OF 1983 NORTH ZONE.
6. OPERATOR: TRAVIS WINNICKI
7. IMPROVEMENTS: SEE LOCATION DRAWING FOR ALL VISIBLE IMPROVEMENTS WITHIN 500' OF DISTURBED AREA.
8. WELL FOOTAGES ARE MEASURED AT RIGHT ANGLES TO THE SECTION LINES.

**SURFACE LOCATION**  
SEC. 17, T2N, R68W  
GROUND ELEVATION = 4921.1'  
PDOP = 1.2  
LATITUDE = 40.133722'  
LONGITUDE = -105.023991'  
814' FSL, 1773' FEL  
**ENTRY POINT LOCATION**  
SEC. 17, T2N, R68W  
LATITUDE = 40.132749'  
LONGITUDE = -105.023367'  
460' FSL, 1600' FEL  
**BOTTOM HOLE LOCATION**  
SEC. 8, T2N, R68W  
LATITUDE = 40.159217'  
LONGITUDE = -105.023348'  
460' FNL, 1600' FEL

I HEREBY CERTIFY THAT THIS WELL LOCATION CERTIFICATE WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, THAT THE FIELD WORK WAS COMPLETED ON 1/30/2018, THAT IT IS NOT A LAND SURVEY PLAT OR AN IMPROVEMENT SURVEY PLAT, AND THAT IT IS NOT TO BE RELIED UPON FOR ESTABLISHMENT OF FENCE, BUILDING, OR OTHER FUTURE IMPROVEMENT LINES.

AARON A. DEMO  
Professional Land Surveyor Registration No. 438285  
State of Colorado  
FOR AND ON BEHALF OF BASELINE ENGINEERING CORP.

## NEAREST CULTURAL ITEMS:

BUILDING: 541' E  
BUILDING UNIT: 541' E  
HIGH OCCUPANCY BUILDING UNIT: 5280'+  
DESIGNATED OUTSIDE ACTIVITY AREA: 5280'+  
PUBLIC ROAD: WELD COUNTY ROAD 20 1/2 1789' N  
ABOVE GROUND UTILITY: 1786' N  
RAILROAD: 5280'+  
PROPERTY LINE: 315' N  
SURFACE USE: IRRIGATED CROP LAND.  
NEAREST EXISTING WELL: SCHLAGEL 2 153' N



DRAWN BY	BGR	CHECKED BY	AAD
INITIAL SUBMITTAL	3/9/2018		
REVISED	N/A		
DRAWING SIZE	8.5" X 11"		
JOB NO.	EXT02N68W17-01		
SHEET	1 OF 2		

**BASELINE**  
Engineering · Planning · Surveying  
4007 S. LINCOLN AVENUE, SUITE 405 • LOVELAND, COLORADO 80537  
P: 970.353.7800 • F: 970.353.7801 • www.baselinecorp.com

# WELL LOCATION PLAT RINN VALLEY EAST N17-20-6N

SW1/4 SE1/4 SEC. 17, T2N, R68W, 6TH P.M.

NW COR. SEC. 8  
FOUND 3.25" A.C.  
ILLEGIBLE

NE COR. SEC. 8  
FOUND #6 REB.  
W/ 3.25" A.C.  
PLS 34977

N 1/4 COR. SEC. 8  
FOUND #6 REB.  
W/ 3.25" A.C.  
PLS 7239

C 1/4 COR. SEC. 8  
FOUND 1.25" PIPE  
W/ 2" A.C.  
PLS 18982

W 1/4 COR. SEC. 8  
FOUND #6 REB.  
W/ 2.5" A.C.  
PLS 29041

E 1/4 COR. SEC. 8  
FOUND #6 REB.  
W/ 2.5" A.C.  
PLS 24305

SW COR. SEC. 8  
FOUND #6 REB.  
W/ 2.5" A.C.  
PLS 38414

SE COR. SEC. 8  
(CALCULATED  
FROM SURVEY  
RECORDS)

WELL BORE CONTINUES INTO  
SECTION 17 (SHEET 1)

## NOTES:

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- INDICATES CALCULATED CORNER
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- BEARINGS DERIVED FROM COLORADO COORDINATE SYSTEM OF 1983 NORTH ZONE.
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**SURFACE LOCATION**  
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LONGITUDE = -105.023991°  
814' FSL, 1773' FEL  
**ENTRY POINT LOCATION**  
SEC. 17, T2N, R68W  
LATITUDE = 40.132749°  
LONGITUDE = -105.023367°  
460' FSL, 1600' FEL  
**BOTTOM HOLE LOCATION**  
SEC. 8, T2N, R68W  
LATITUDE = 40.159217°  
LONGITUDE = -105.023348°  
460' FNL, 1600' FEL

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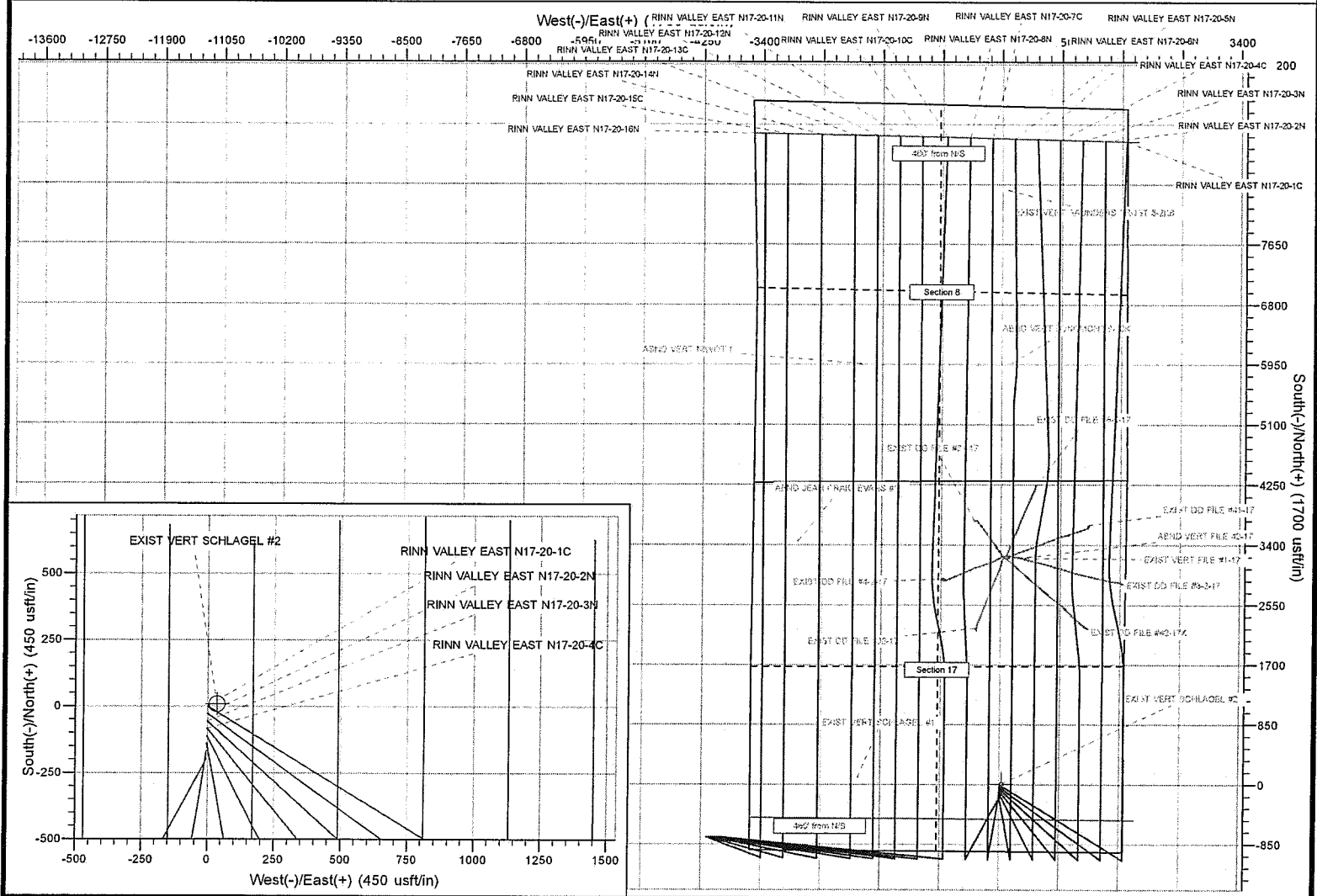


DRAWN BY	BGR	CHECKED BY	AAD
INITIAL SUBMITTAL	3/9/2018		
REVISION	N/A		
DRAWING SIZE	8.5" X 11"		
JOB NO.	EXT02N68W17-01		
SHEET	2 OF 2		

**BASELINE**  
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Project: Weld County  
Site: Sec 17-T2N-R68W  
Well: RINN VALLEY EAST N17-20-1C  
ORIGINAL WELLBORE  
PROPOSAL 1



# Anticollision Report

<b>Company:</b>	EXTRACTION OIL & GAS	<b>Local Co-ordinate Reference:</b>	Well RINN VALLEY EAST N17-20-6N
<b>Project:</b>	Weld County	<b>TVD Reference:</b>	KB 25' @ 4946.00usft
<b>Reference Site:</b>	Sec 17-T2N-R68W	<b>MD Reference:</b>	KB 25' @ 4946.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	RINN VALLEY EAST N17-20-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	PROPOSAL 1		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD + Stations Interval 100.00usft	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 9,999.98 usft	<b>Error Surface:</b>	Pedal Curve
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>	Date 2/15/2018			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	17,327.22	PROPOSAL 1 (ORIGINAL WELLBORE)	MWD OWSG	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Sec 17-T2N-R68W						
ABND JEAN CRAIG EVANS #1 - Wellbore #1 - Design #	11,637.28	4,838.00	3,879.69	3,739.24	27.623	CC
ABND JEAN CRAIG EVANS #1 - Wellbore #1 - Design #	11,700.00	4,838.00	3,880.20	3,738.86	27.453	ES
ABND JEAN CRAIG EVANS #1 - Wellbore #1 - Design #	12,900.00	4,838.00	4,080.01	3,922.81	25.956	SF
ABND VERT FILE 42-17 - Wellbore #1 - Design #1	600.00	549.00	3,333.88	3,321.36	266.172	CC
ABND VERT FILE 42-17 - Wellbore #1 - Design #1	700.00	648.98	3,335.59	3,320.70	224.046	ES
ABND VERT FILE 42-17 - Wellbore #1 - Design #1	15,500.00	1,020.00	7,456.54	7,383.25	101.741	SF
EXIST DD FILE #31-17 - Wellbore #1 - Wellbore #1	11,919.24	7,266.01	532.22	424.22	4.928	CC, ES, SF
EXIST DD FILE #32-17 - Wellbore #1 - Wellbore #1	10,396.80	7,382.12	515.51	427.63	5.866	CC
EXIST DD FILE #32-17 - Wellbore #1 - Wellbore #1	10,400.00	7,382.18	515.52	427.62	5.865	ES, SF
EXIST DD FILE #41-17 - Wellbore #1 - Wellbore #1	11,834.79	7,357.48	1,074.05	966.71	10.006	CC, ES
EXIST DD FILE #41-17 - Wellbore #1 - Wellbore #1	12,000.00	7,354.02	1,086.67	976.42	9.856	SF
EXIST DD FILE #4-2-17 - Wellbore #1 - Wellbore #1	11,104.72	7,363.04	989.33	894.68	10.452	CC, ES
EXIST DD FILE #4-2-17 - Wellbore #1 - Wellbore #1	11,200.00	7,362.11	993.91	898.40	10.406	SF
EXIST DD FILE #42-17X - Wellbore #1 - Wellbore #1	10,396.42	7,443.23	1,057.61	968.54	11.875	CC
EXIST DD FILE #42-17X - Wellbore #1 - Wellbore #1	10,400.00	7,443.19	1,057.61	968.53	11.872	ES
EXIST DD FILE #42-17X - Wellbore #1 - Wellbore #1	10,500.00	7,442.02	1,062.67	973.13	11.868	SF
EXIST DD FILE #6-0-17 - Wellbore #1 - Wellbore #1	12,406.20	7,373.66	318.81	199.05	2.662	CC, ES, SF
EXIST DD FILE #8-2-17 - Wellbore #1 - Wellbore #1	11,036.73	7,448.34	1,531.84	1,436.61	16.086	CC, ES
EXIST DD FILE #8-2-17 - Wellbore #1 - Wellbore #1	11,300.00	7,437.98	1,554.27	1,456.23	15.854	SF
EXIST VERT FILE #1-17 - Wellbore #1 - Design #1	11,393.21	7,228.94	107.53	9.29	1.095	Level 2, CC, ES, SF
EXIST VERT SCHLAGEL #1 - Wellbore #1 - Design #1	600.00	564.00	2,026.19	2,013.33	157.572	CC
EXIST VERT SCHLAGEL #1 - Wellbore #1 - Design #1	800.00	763.84	2,028.28	2,010.71	115.457	ES
EXIST VERT SCHLAGEL #1 - Wellbore #1 - Design #1	8,500.00	7,243.99	2,198.76	2,020.90	12.362	SF
EXIST VERT SCHLAGEL #2 - Wellbore #1 - Design #1	8,187.17	7,254.99	136.74	-39.22	0.777	Level 1, CC, ES, SF
RINN VALLEY EAST N17-20-1C - ORIGINAL WELLBOR	676.65	677.19	122.89	118.30	26.754	CC
RINN VALLEY EAST N17-20-1C - ORIGINAL WELLBOR	700.00	700.23	123.03	118.25	25.733	ES
RINN VALLEY EAST N17-20-1C - ORIGINAL WELLBOR	17,327.22	17,807.65	1,612.05	1,270.87	4.725	SF
RINN VALLEY EAST N17-20-2N - ORIGINAL WELLBOR	720.66	721.79	96.10	91.30	20.019	CC, ES
RINN VALLEY EAST N17-20-2N - ORIGINAL WELLBOR	17,327.22	17,489.99	1,280.52	934.18	3.697	SF
RINN VALLEY EAST N17-20-3N - ORIGINAL WELLBOR	767.94	769.27	70.11	65.05	13.864	CC
RINN VALLEY EAST N17-20-3N - ORIGINAL WELLBOR	800.00	801.29	70.31	65.02	13.275	ES
RINN VALLEY EAST N17-20-3N - ORIGINAL WELLBOR	17,327.22	17,430.94	960.39	613.77	2.771	SF
RINN VALLEY EAST N17-20-4C - ORIGINAL WELLBOR	820.96	822.06	45.06	39.69	8.385	CC, ES
RINN VALLEY EAST N17-20-4C - ORIGINAL WELLBOR	17,327.22	17,618.90	688.43	361.56	2.106	SF
RINN VALLEY EAST N17-20-5N - ORIGINAL WELLBOR	880.22	881.55	21.46	15.71	3.729	CC
RINN VALLEY EAST N17-20-5N - ORIGINAL WELLBOR	17,327.22	17,358.43	320.13	-27.48	0.921	Level 1, ES, SF
RINN VALLEY EAST N17-20-7C - ORIGINAL WELLBOR	1,044.35	1,044.49	17.68	10.80	2.569	CC

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation