# **UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT**

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK TES 21 PM 3:41

Operator BURLINGTON RESCURCES Oil & Gas  Address & Phone No. of Opera PO Box 4289, Farming (505) 326-9700  Location of Well Unit J (NWSE), 2480' E Unit B (NWNE), 1060' E Latitude 360 48.7315'N	tor gton, NM 87499	AMNM-79420 6. If Indian, All. or 7. Unit Agreement San Juan 30-6 8. Farm or Lease N San Juan 9. Well Number #4658	Tribe  Name  Unit
GAS  Operator BURLINGTON RESCURCES Oil & Gas  Address & Phone No. of Opera PO Box 4289, Farming  (505) 326-9700  Location of Well Unit J (NWSE), 2480' I Unit B (NWNE), 1060' I	tor gton, NM 87499	7. Unit Agreement San Juan 30-6 8. Farm or Lease N San Juan 9. Well Number	Name Unit ame
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PO Box 4289, Farming  (505) 326-9700  4. Location of Well  Unit J (NWSE), 2480' H  Unit B (NWNE), 1060' H	gton, NM 87499	San Juan 9. Well Number	
(505) 326-9700  Location of Well Unit J (NWSE), 2480' F Unit B (NWNE), 1060' F		9. Well Number	30-6
Location of Well Unit J (NWSE), 2480' F Unit B (NWNE), 1060' F		#4658	
Unit J (NWSE), 2480' F Unit B (NWNE), 1060' F			
Unit B (NWNE), 1060' B		10. Field, Pool, Wil	
Tabibuda 260 48.7315'I			land Coal
	ī	11. Sec., Twn, Rge √ Sec. 15, T30N,	
Longitude 107° 33.3832		•	
-		API# 30-039- 30	205
14. Distance in Miles from Nearest	Town	12. County	13. State
9 miles to Navajo City	7	Rio Arriba	NM
15. Distance from Proposed Location 2250'	on to Nearest Property or Le	ease Line	
16. Acres in Lease		17. Acres Assigned	to Well
18. Distance from Proposed Location 75' - San Juan 30-6 Uni		mpl, or Applied for on this Lea	380
19. Proposed Depth		20. Rotary or Cable	Tool
-3202' -4060		Rotary	
21. Elevations (DF, FT, GR, Etc.)		22. Approx. Date	Work will Start
6223'GL			
23. Proposed Casing and Cementin	g Program	√	Tal clive
See Operations Plan	attached	HOLD C184 FOR dived	iona (svi y
24. Authorized by:	Jana Sana	2-2	1-07
Regulatory	Tech	Date	
PERMIT NO.	APPRO	VAL DATE	
APPROVED BY	TITLE A	TM DATE	3/23/6

Threatened and Endangered Species Report attached

NOTIE: This format is issued in lieu of U.S. BLM Form 3160-3

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

3/28/07

MMOCD 18

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

District I PO Box 1980, Hopbs, NM 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back

District II PO Drawer DD, Artesia, NM 88211-0719

Submit to Appropriate District Office State Lease - 4 Copies OIL CONSERVATION DIVISION Fee Lease - 3 Copies

District III 1000 Rio Brazos Rd., Aztec, NM 87410

PO Box 2088 Santa Fe, NM 87504-2088 EB 21 PM 3: H AMENDED REPORT

District IV PO Box 2088, Santa Fe. NM 87504-2088

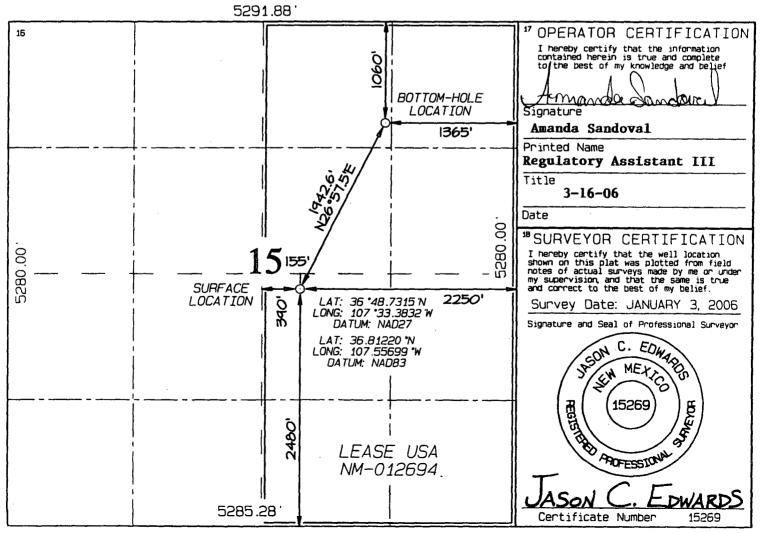
RCVD MAR27'07

WELL LOCATION AND ACREAGE DEDICATION PLATE CONS. DIV.

'API Number		*Popl Code	Zasana Poor Name 1151. J				
30-039- 2	20205	71629 Basin Fruitland Coal					
*Property Code		Property Name					
7469	}	465S					
'OGRID No.		*Operator Name					
14538	BU	6223					
		10 0 - 6	1				

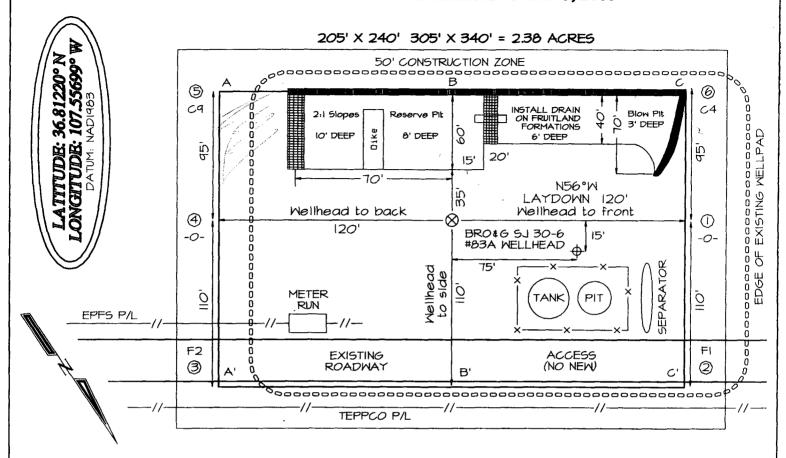
<sup>10</sup> Surface Location Section U ne lot no. Township Range Lot Ido Feet from the North/South line Feet from the East/West line RIO 30N 7W SOUTH 2250 **EAST** 15 2480 ARRIBA 11 Bottom Different Hole Location If From Surface RIO UL or lot no Section Range Lot Idn Feet from the North/South line Feet from the East/West line **7W** В 15 30N NORTH 1060 1365 EAST ARRIBA 12 Dedicated Acres <sup>13</sup>Joint or Infill <sup>54</sup> Consolidation Code <sup>15</sup> Order No. 320 E2

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

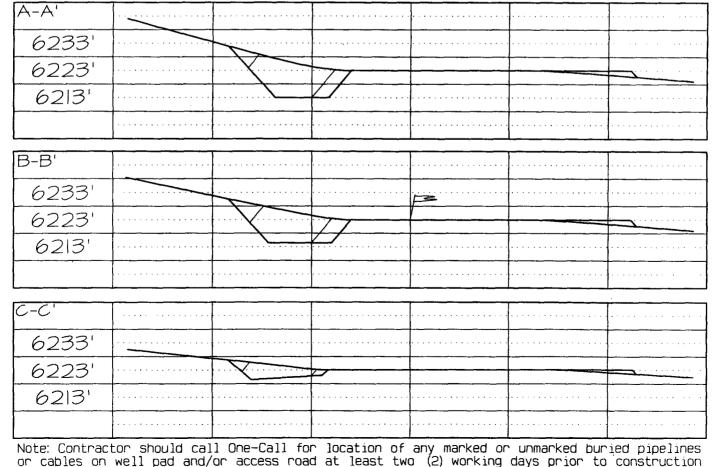


Office	State of New Mexico		Form C-103
District I	Energy, Minerals and Natural Resou	urces	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II		WELL API NO. 30-039- 3C	1205
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVIS	ION 5. Indicate Type of Lease	
District III	1220 South St. Francis Dr.	STATE FEE	
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u>	Santa Fe, NM 87505	6. State Oil & Gas Lease No.	
1220 S. St. Francis Dr., Santa Fe, NM 8750		NMNM-012694	
	ES AND REPORTS ON WELLS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Nan	ne
DIFFERENT RESERVOIR. USE "APPLICATION	ON FOR PERMIT" (FORM C-101) FOR SUCH	San Juan 30-6 Unit	
PROPOSALS.)  1. Type of Well:		8. Well Number	
Oil Well Gas Well X	Other	4658	
2. Name of Operator	OURCES OIL & GAS COMPANY LP	9. OGRID Number 14538	
3. Address of Operator	ORCES OIL & GAS COMPANT LF	10. Pool name or Wildcat	
4. Well Location	EET, FARMINGTON, NM 87402	Basin Fruitland Coal	
ſ	480' feet from the South line a		line
Section 15	Township 30N Rng Elevation (Show whether DR, RKB, RT, GR, etc.		Rio Arriba
	Elevation (Snow whether DR, RRB, R1, GR, etc. 6223'		
Pit or Below-grade Tank Application	or Closure		>201
Pit type New Drill Depth to Groundw	<del></del>	<del></del>	
Pit Liner Thickness: 12	mil Below-Grade Tank: Volume	bbls; Construction Material	
PERFORM REMEDIAL WORK TEMPORARILY ABANDON	CHANGE PLANS CO	SUBSEQUENT REPORT OF MEDIAL WORK MMENCE DRILLING OPNS. ALTERIN P AND A	: G CASING
		CINIC/CEMENT IOD I I	
PULL OR ALTER CASING	_	SING/CEMENT JOB	_
OTHER: New	Drill X OT	HER:	loso 🔲
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OTHER: New  13. Describe proposed or complete of starting any proposed work)	Drill X OTI ed operations. (Clearly state all pertinent details	HER: s, and give pertinent dates, including estimated of	
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OTHER:  New  13. Describe proposed or complete of starting any proposed work) or recompletion.  New Drill, Lined:  Burlington Resources proposes to consult of the Economic Burlington's interpretation of the Economic Burlington's Revised Drilling / Work portion of the vent/flare pit will be dianticipates closing these pits according to the portion of the vent/flare pit will be dianticipates closing these pits according to the pits accord	Drill X OTH  ed operations. (Clearly state all pertinent details  see SEE RULE 1103. For Multiple Completions  matricet a new drilling pit, an associated vent/flatosphere's risk ranking criteria, the new drilling cover Pit Construction / Operation Procedures designed to manage fluids and that portion will be might be be be be be best of my known of the Drilling / Workover Pit Closure Procedures of the Drilling / TITLE	HER:  s, and give pertinent dates, including estimated of the state of	on ailed in office. A ton Resources D office.
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# BURLINGTON RESOURCES OIL & GAS COMPANY SAN JUAN 30-6 UNIT #465S 2480' FSL & 2250' FBL, SECTION 15, T30N, R7W, NMPM, RIO ARRIBA COUNTY, NM GROUND ELEVATION: 6223' DATE: JANUARY 3, 2006



Reserve Pit Dike: to be 8' above Deep side (overflow - 3' wide and 1' above shallow side). Blow Pit: overflow pipe halfway between top and bottom and to extend over plastic liner and into blow pit.



### SJ 30-6 #465S OPERATIONS PLAN

Well Name:

SJ 30-6 #465S

Objective:

**Basin Fruitland Coal** 

Location:

Rio Arriba NM

Elevation:

62231

Surface Coordinates/Footages

T-30 N R-7W

Sec.: 15

2480' FSL

2250' FEL

Latitude: Longitute: 36° 48.7315' N 107° 33.3832' W Bottom Hole Coordinates/Footages

T-30 N R-7W Sec.: 15

1060' FNL

FNL 1365' FEL

Latitude: 36° 49.0168' N

Longitute: 107° 33.2027' W

<b>Formation</b>	Top (TMD)	Top (TVD)	<b>Contents</b>
Ojo Alamo	2875'	2067'	aquifer
Kirtland	3089'	2252'	
Fruitland Top	3464'	2607'	
Coal Top	3750'	2892'	
Coal Bottom	3970'	3112'	
Pictured Cliffs	3971'	3113'	
Total Depth:	4060'	<i>3202'</i>	

Logging Program:

Cased Hole:

**CBL-GR** 

Open Hole:

None

<u>Mud Program:</u>	<u>Interval (TMD)</u> 0' - 250' 250' - <del>3700'-</del> りんり	<u>Type</u> Spud Non-dispersed	Weight (ppg) 8.4-9.0 8.4-9.0	<u>Vis. (s/qt)</u> 40-50 30-60	Fluid Loss (cc/30min) No control Less than 8
<u>Casing program:</u>	Interval (TMD) 0' - 250' 250' - <del>3700'</del> 40 40	<u>Hole Size</u> 12 1/4" 8 3/4"	Casing Size 9 5/8" 7"	Weight 32.3# 23.0#	<u>Grade</u> H-40 L-80
Tubing program:	<u>Interval (TMD)</u> 0' - <del>3700'</del> 4θ θ ο	<u>Hole Size</u> Cased	Casing Size 2 3/8"	Weight 4.7#	<u>Grade</u> J-55

#### Wellhead Equipment

9 5/8" X 7" X 2 3/8" - 11" (2000 psi) wellhead assembly

<u>Drilling:</u> Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2. Surface

Drill to surface casing point of 250' and set 9.625" casing.

#### **Production**

Mud drill to kick off point of 300'. At this point the well will be directionally drilled by building 4.2 degrees per 100' with an azimuth of 65.26 degrees. The end of the build will be at a TVD of 1439', a TMD of 1754', a reach of 793', and an inclination of 65.26 degrees. This angle and azimuth will be held to a TVD of 1603', a TMD of 2146', and a reach of 1149'. At this point the well will be drilled with a drop of 4.2 degrees per 100'. The end of the drop will be at a TVD of 2842', a TMD of 3700', a reach of 1943', and an angle of 0.0 degrees. 7" casing will be set at this point.

#### Cementing

9.625" surface casing conventionally drilled: 125% excess cement to bring cement to surface.

Run 177 cu.ft. (138 sks) Type III cement with 3% CaCl2 and 1/4 pps celloflake (1.28 sks/ cu.ft.). Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60° F prior to nipple up of BOPE. Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface.

7" production casing: 50% excess cement to bring cement to surface.

Lead with 711 cu.ft. (334 sks) Premium Lite w/ 3% CaCl2, 0.25 pps Cello-Flake, 5 pps LCM-1, 0.4% FL-52 and 0.4% SMS (2.13 sks/ft3). Tail with 124 ft3 (90 sks) Type III cmt. w/ 1% CaCl2, 0.25 pps Cello-Flake and 0.2% FL-52 (1.38 sks/ft3). If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TOC.

# **BOP and Tests**

Surface to Total Depth - 11", 2000 psi double gate BOP stack (Reference Figure #1).

Surface to Total Depth - choke manifold (Reference Figure #2).

Prior to drilling out surface casing, test BOPE and casing to 600 psi for 30 minutes.

Pipe rams will be actuated at least once each day and blind rams will be actuated once each trip to test proper functioning. A Kelly cock valve and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

BOPE tests will be performed using an appropriately sized test plug and test pump and will be recorded using calibrated test gauges and a properly calibrated strip or chart recorder. The test will be recorded in the driller's log and will include a low pressure test requirement of 250 psig held for five minutes and a high pressure test requirement held for ten minutes as described in Onshore Order No. 2 or otherwise noted in the APD. A successful BOPE test using a test plug is considered when no pressure drop occurs over the duration of the test. Test gauges and recorders must be of the proper range and resolution commensurate with the authorized test pressure. Where the intermediate casing strings are used, only one BOPE test will be necessary contingent upon the test being conducted to the highest approved test pressure to which BOPE will be exposed. Casing pressure tests must be held for 30 minutes with no more than 10 percent pressure drop during the duration of the test.

## Additional Information:

- · No gas dedication.
- · New casing will be utilized.
- Pipe movement (reciprocation) will be done if hole conditions permit.
- No abnormal pressure zones are expected.

. ABHP= 100 psi

Drilling Engineer

2/21/07 Date



200

400

600

800

1000

1200

1400-

1600

1800

2000

2200

£2400

8 2600

-3000

3200-

3400 § 3600

**2800** € 4000

4200

4400

4600 4800

5000

5200

5400

5600 5800

6000

400

30-6 UNIT 465 S/Plan #3

1400

600 1800

Vertical Section at 26.96° (1000 ft/in)

8

2000

Project: SAN JUAN BASIN

Site: SEC 15-T30N-R7W Well: 30-6 UNIT 465 S

Wellbore: ST00BP00 Design: Plan #3



# WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name T\	/D +N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
30-6 UNIT 465 S EQ2842	2.0 1731.5	880.7	2116685.44	581952.07	36° 49' 0.387 N	107° 33' 12.099 W	Point

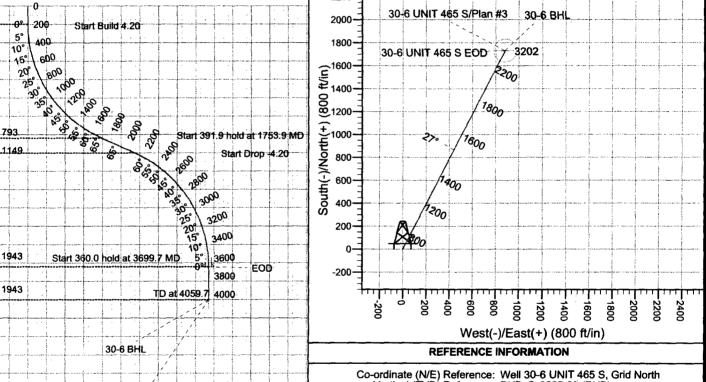
30-6 BHL 3202.0 1731.5 880.7 2116685.45 581952.03 36° 49' 0.387 N 107° 33' 12.099 W Circle (Radius: 100.0

#### WELL DETAILS: 30-6 UNIT 465 S

			Ground Level:	6223.0		
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.0	0.0	2114953.94	581071.37	36° 48' 43.290 N	107° 33' 22.992 W	

#### **SECTION DETAILS**

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	<b>TFace</b>	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	_
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	1753.9	65.26	26.96	1439.0	707.1	359.7	4.20	26.96	793.3	
4	2145.8	65.26	26.96	1603.0	1024.4	521.0	0.00	0.00	1149.3	
5	3699.7	0.00	0.00	2842.0	1731.5	880.7	4.20	180.00	1942.6	30-6 UNIT 465 S EOD
6	4059.7	0.00	0.00	3202.0	1731.5	880.7	0.00	0.00	1942.6	30-6 BHL



Vertical (TVD) Reference: RKB @ 6237.0ft (RKB) Section (VS) Reference: Slot - (0.0N, 0.0E) Measured Depth Reference: RKB @ 6237.0ft (RKB) Calculation Method: Minimum Curvature

#### PROJECT DETAILS: SAN JUAN BASIN

Geodetic System: US State Plane 1927 (Exact solution) Datum: NAD 1927 (NADCON CONUS) Ellipsoid: Clarke 1866

Zone: New Mexico West 3003

System Datum: Mean Sea Level

Azimuths to Grid North True North: -0.17

Magnetic North: 10.24

Magnetic Field Strength: 51313.8snT Dio Angle: 63.71 Date: 1/4/2007 Model: BGGM2006

SITE DETAILS: SEC 15-T30N-R7W

Site Centre Latitude: 36° 48' 43.290 N Longitude: 107° 33' 22.992 W

Positional Uncertainity: 0.0 Convergence: 0.17 Local North: Grid

# **ConocoPhillips**

# Planning Report

Database:

**EDM Central Planning** 

Company:

ConocoPhillips Lower 48

Project:

San Juan Basin

Site: Well: FC

SJ 30-6 #465S

Wellbore: Design:

Wellbore #1 Plan #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: **Survey Calculation Method:**  Well SJ 30-6 #465S

WELL @ 6237.0ft (Original Well Elev)

WELL @ 6237.0ft (Original Well Elev)

True

Minimum Curvature

**Project** 

San Juan Basin, Mid-Continent Area

Map System:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

Geo Datum: Map Zone:

New Mexico West 3003

System Datum:

Mean Sea Level

Site

FC

Site Position:

Map

Northing:

2,115,014.74ft

Latitude: Longitude: 36° 48' 43.891" N

**Position Uncertainty:** 

0.0 ft

Easting: **Slot Radius:**  581,071.10ft

**Grid Convergence:** 

107° 33' 22.993" W

0.17 d

Well

From:

SJ 30-6 #465S

**Well Position** 

+N/-S

0.0 ft

Northing: Easting:

2.115.014.74 ft

Latitude:

36° 48' 43.891" N

+E/-W

0.0 ft

581,071.10 ft

Longitude:

**Position Uncertainty** 

0.0 ft

Wellhead Elevation:

**Ground Level:** 

107° 33' 22.993" W

6,223.0 ft

Wellbore

Wellbore #1

Plan #1

**Magnetics** 

**Model Name** 

Sample Date

Declination (d)

Dip Angle (d)

Field Strength

(nT)

**BGGM2005** 

12/22/2006

10.39

63.71

51,274

Design

**Audit Notes:** 

Version:

Phase:

**PROTOTYPE** 

Tie On Depth:

0.0

**Vertical Section:** 

Depth From (TVD) (ft)

0.0

+N/-S (ft) 0.0

+E/-W (ft) 0.0

Direction (d)

26.97

Plan Sections										
Measured Depth (ft)	Inclination (d)	Azimuth (d)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (d/100ft)	Build Rate (d/100ft)	Turn Rate (d/100ft)	TFO (d)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,708.7	66.27	26.97	1,394.1	694.7	353.4	4.39	4.39	0.00	0.00	
2,042.4	66.27	26.97	1,528.5	967.0	492.0	0.00	0.00	0.00	0.00	
3,701.9	0.00	0.00	2,842.0	1,731.1	880.8	3.99	-3.99	0.00	180.00	30-6#465S-ICP
4,061.9	0.00	0.00	3,202.0	1,731.1	8.08	0.00	0.00	0.00	0.00	30-6#465S-LP